THE DATASHEET OF

5973322507F

Dialight

Micro LED®

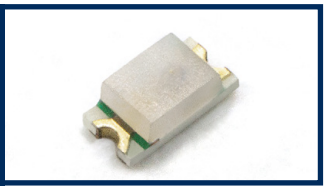
Surface Mount LED Selector Guide

A wide spectrum of package sizes, configurations, colors +More

RoHS COMPLIANT

www.dialightsignalsandcomponents.com

Micro LED® Surface Mount LEDs



Micro LED® Surface Mount LED product line provides one of the industry's widest range of discrete LEDs. Packaged in chipLED, PLCC, right-angle and reverse-mount configurations, the series is available in a full range of colors and intensities, including the latest AlInGaP and InGaN technology. All products are RoHs compliant, and are perfectly suited to be used with Dialight's wide-range of Optopipe® 515 Series Light Pipes.

With such a wide variety of mounting styles, colors, intensities, viewing angles and lens features, the Micro LED® Surface Mount series is sure to include a cost-effective solution to any application.

Also available from Dialight

Prism® Surface Mount Indicators

591–595 Series Single, BiLevel & TriLevel SMDs

Dialight's Prism® indicators are the industry's only SMD indicator series designed to survive 260 °C peak reflow temperature *and* provide the aesthetic appeal of a diffused lens for enhanced viewing. Ideal for limited-space applications and board-edge mounting, the Prism® Series is available in a variety of package sizes including single level, bi-level, and tri-level configuration and in 1.6mm, 2mm and 3mm lens size. The integral light pipes used in Prism® SMD LEDs are engineered for maximum light transmission and minimal light bleed while the diffused lens is also ideal for bicolor and tricolor applications where color-mixing is desired.

Features & Benefits

- Compatible with automatic placement equipment.
- Compatible with surface mount reflow soldering processes.
- Housing meets UL-94V-0 flammability ratings.
- Patented design provides increased indication without increased space.
- Illumination areas compatible with industry standard 2 mm & 3 mm through hole CBIs.
- Packaged in dry packaging moisture barrier bags per IPC/JEDEC J-STD-033.
- Helps to eliminate mixed technology PC board processing.

Contact your Authorized Dialight Distributor or local Sales Representative for more information or samples.
http://www.dialightsignalsandcomponents.com/WhereToBuy/Optoelectronic

The following pages are organized as a product overview. Additional information is available at www.dialightsignalandcomponents.com including detailed specs and schematics, 3D models, and operating characteristics.

Dialight

Micro LED® SMDs Typical Applications

- Data center Infrastructure
- Servers: Rack mount; blade; tower
- Storage: High-performance storage subsystems for high-end enterprise
- Storage Networking Hardware
- Fiber channel host bus adapter cards (HBAs); converged network adapter cards (CNAs); SCSi adapter cards; InfiniBand adapter cards
- Next-Gen Wireless
- Wireless Infrastructure
- Electronic Test & Measurement Instruments
- Networking Equipment for enterprise data centers and telecom communication centers
- Switches, routers, and network control equipment interconnected using fiber optic and high speed wiring
- Communications Testing Equipment
- Process controls
- Automation
- Medical
- Handheld devices
- Battery powered applications (2mA version)

Contents

Products are listed in this guide first by overall package size; then by variable heights from smallest to highest.

Top View SMDs

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/ BiColor & TriColor

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/ Single Color with Zener Diode / Single Color with binning / BiColor / Single Color with Lens

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Right Angle

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/ Single Color

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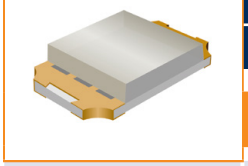
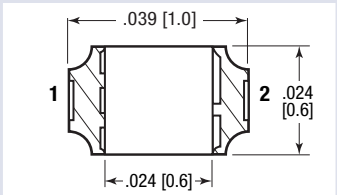
/ Single Color Low Current / Single Color / Single Color

Top View | 0402



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0402 Package ▶ 1.0 x 0.6 x 0.2 mm / *Single Color*													
597-3007-507F	R : 625	630	635	AlInGaP	20	25	60	100	2.0	–	135	-40 to +85	-40 to +100
597-3027-507F	R : 615	620	625		20	40	85	160	2.0	–			
597-3207-507F	O : 602	605	608		20	63	100	250	2.1	–			
597-3327-507F	G : 520	527	535	InGaN	5	56	110	220	3.0	–			
597-3407-507F	Y : 587	590	593	AlInGaP	20	40	130	160	2.1	–			
597-3507-507F	YG : 569	572	575		20	10	25	65	2.2	–			
597-3607-507F	B : 465	470	475	InGaN	5	9	25	56	2.9	–			
597-3907-507F	W : X = 0.30 / Y = 0.30				5	90	150	360	2.9	–			



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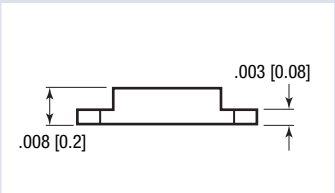

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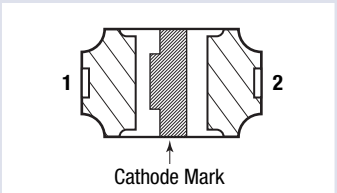

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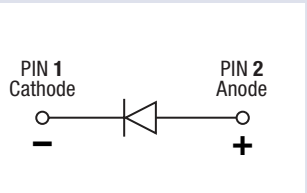
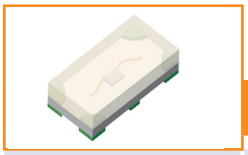
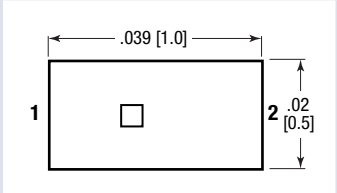


Schematic



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0402 ▶ 1.0 x 0.5 x 0.4 mm / *Single Color*													
598-8A10-107F	R : 630	635	640	AlInGaP	5	28	65	100	1.7	2.4	140	-40 to +85	-40 to +85
598-8A20-107F	R : 620	625	630			28	47	65	1.8	2.4			
598-8A30-107F	O : 600	605	610			28	47	65	1.8	2.4			
598-8A40-107F	Y : 587	591	595			18	42	65	1.8	2.4			
598-8A60-107F	YG : 568	572	575			8	12	18	1.8	2.4			
598-8A80-107F	G : 525	528	530	InGaN		230	330	430	2.5	3.3			
598-8A90-107F	B : 465	470	475			43	72	100	2.5	3.3			



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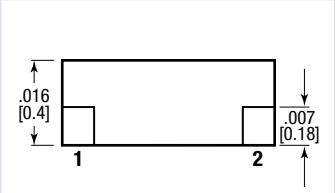

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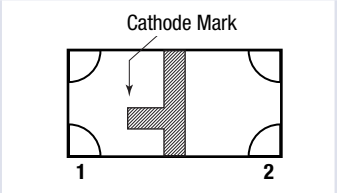

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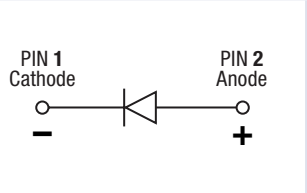
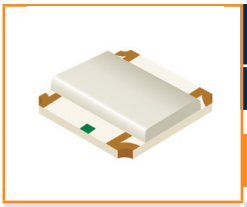


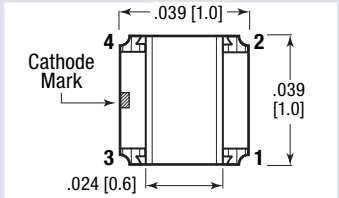
Schematic

NOTE: Top View SMDs are shown in the diagrams in top, side and bottom views. The top and bottom diagrams flip across the x-axis.



0404 Package ▶ 1.0 x 1.0 x 0.2 mm / *BiColor and TriColor*

	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
597-7707-507F	R : 615	620	625	AlInGaP	20		25	52	100	2.1	–	128	-40 to +85	-40 to +100
	G : 569	572	575	AlInGaP			10	21	40	2.2	–			
597-7717-507F	R : 619	624	629	AlInGaP	5		14	35	56	2.1	–	120	-40 to +85	-40 to +100
	G : 520	527	535	InGaN			56	110	220	3.1	–			
	B : 465	470	475	InGaN			28	45	110	3.0	–			



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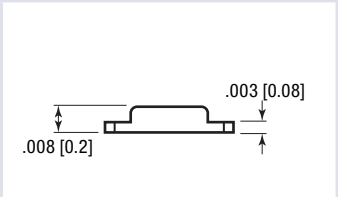
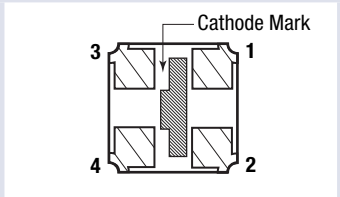


Side



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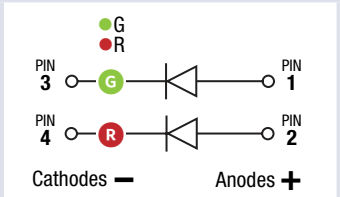
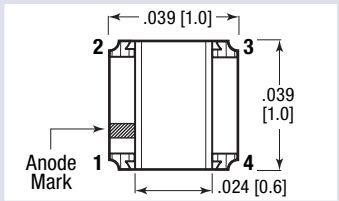


Schematic



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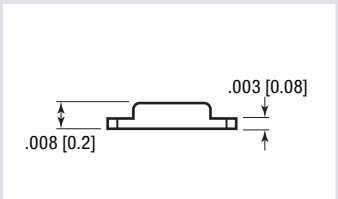

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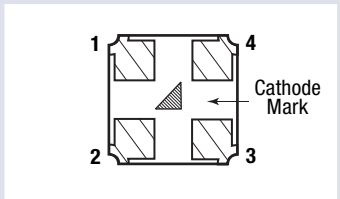

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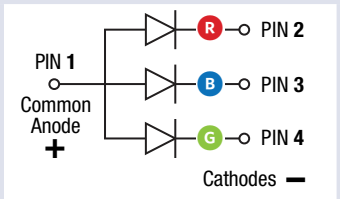
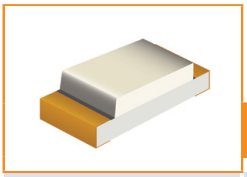
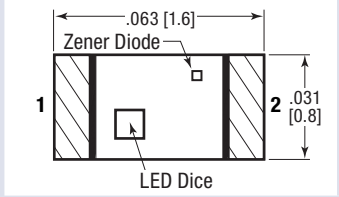


Schematic



0603 Package ▶ 1.6 x 0.8 x 0.35 mm / *Single Color with Zener*

597-3905-607F	W : X = 0.294 / Y = 0.300	InGaN	5	71	–	146	2.7	3.15	130	-20 to +80	-40 to +85



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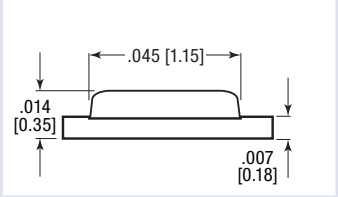
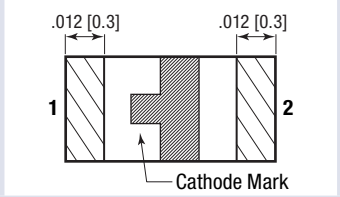


Side



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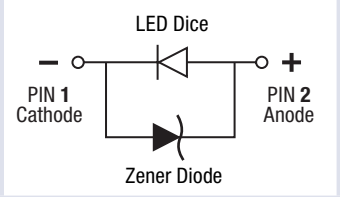
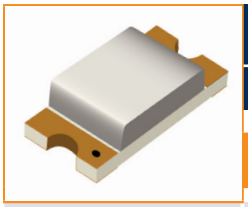
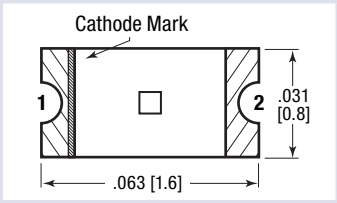


Schematic

Top View | **0603**



Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
Min	Typ	Max			Min	Typ	Max	Typ	Max			
0603 ▶ 1.6 x 0.8 x 0.55 mm / *Single Color*												
597-3304-607F	● G : –	569	–	GaP	20	2.8	12	28	2.1	2.6	130	-55 to +85	-55 to +85



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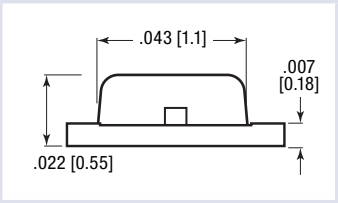
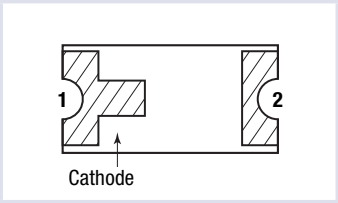


Side



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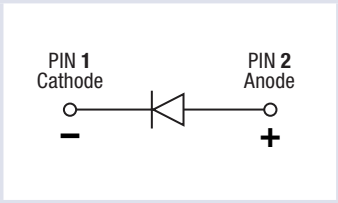
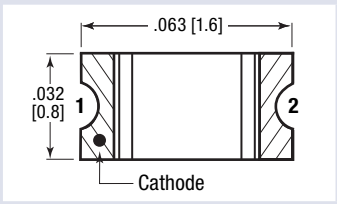


Schematic

597-3901-830F	○ W : X = 0.31 / Y = 0.32			InGaN	10	112	–	240	2.8	3.4	-20 to +80	-55 to +105



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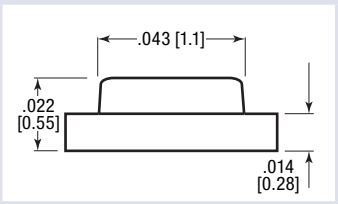
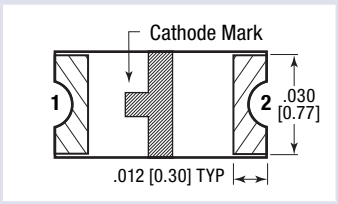


Side



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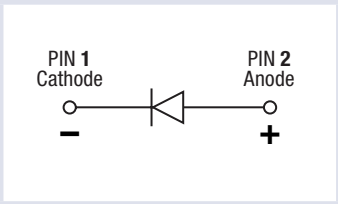
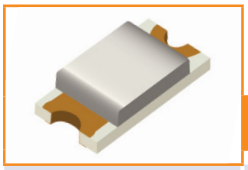


Schematic

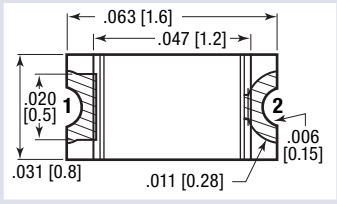


0603 ▶ 1.6 x 0.8 x 0.55 mm / *Single Color 1 Bin*

597-3005-507F	● R : 627	630	633	AlInGap	20	71	90	–	2		160	-40 to +100	-40 to +100
597-3035-507F	● R : 617	620	623			90	112	–	2				
597-3045-507F	● RO : 612	615	618			112	140	–	2				
597-3205-507F	● O : 603	605	607			112	140	–	2				
597-3405-507F	● Y : 588	590	592			180	224	–	2.1				
597-3505-507F	● YG : 569	571	573			56	71	–	2.1				

0603 ▶ 1.6 x 0.8 x 0.55 mm / *Single Color 2+ Bin*

597-3324-507F	● G : 520	527	535	InGaN	5	56	140	330	3	3.5	160	-40 to +100	-40 to +100
597-3604-507F	● B : –	470	–			14	40	56	2.9	3.3			
597-3904-507F	○ W : X = 0.295 / Y = 0.280					56	120	220	2.9	3.3			



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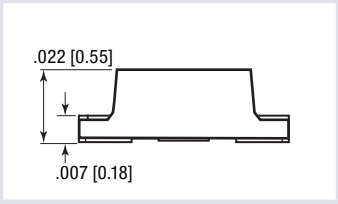
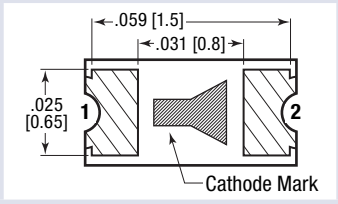


Side



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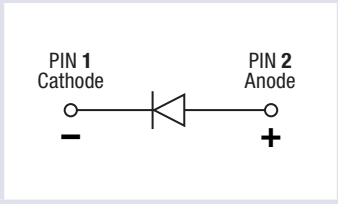
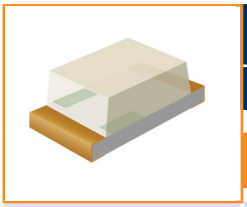
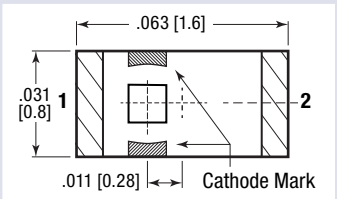


Schematic



0603 ▶ 1.6 x 0.8 x 0.7 mm / *Single Color*

	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
597-5004-407F	R : 621	626	632	AlInGaP	20	25	50	200	1.9	2.4	152	-40 to +85	-40 to +100
597-5112-407F	R : –	647	–	AlGaAs		7	11.7	–	1.7	2.3		-30 to +85	
597-5203-407F	O : –	606	–	GaAsP		2	3.4	–	2.2	2.8		-30 to +85	
597-5213-407F	O : –	605	–	AlInGaP		25	65	–	1.9	2.4		-40 to +85	
597-5223-407F	Y : –	590	–	AlInGaP		25	65	–	1.9	2.4		-40 to +85	
597-5312-407NF	G : 565	567	572	GaP		4.5	–	15.1	2.1	2.8		-40 to +100	
597-5412-407F	YG : –	572	–	GaP		7	11.7	–	2.1	2.8		-30 to +85	



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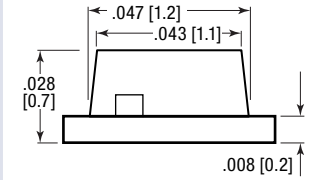
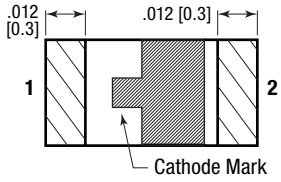


Side



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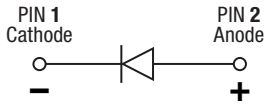
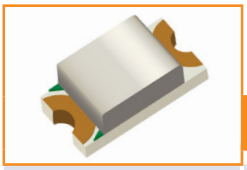
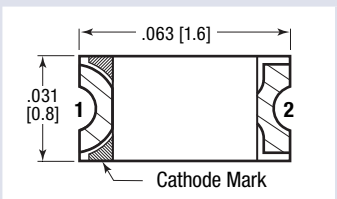


Schematic



0603 ▶ 1.6 x 0.8 x 0.7 mm / *Single Color*

	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
598-8010-107F	R : 625	633	640	AlInGaP	20	30	60	90	2.1	2.4	140	-40 to +100	-40 to +100
598-8020-107F	RO : 620	625	630			120	225	330	2.1	2.4			
598-8030-107F	O : 600	605	610			70	120	200	2.1	2.4			
598-8040-107F	Y : 590	592	595			120	160	200	2.1	2.4			
598-8050-107F	Y : 585	587	590			90	105	120	2.1	2.4			
598-8060-107F	YG : 570	572	575			43	62	80	2.1	2.4			
598-8070-107F	G : 562	566	570			12	28	43	2.1	2.4			
598-8081-107F	G : 517	525	530	InGaN		260	580	900	3.1	3.4			
598-8091-107F	B : 465	470	475			90	145	200	3.2	3.5			



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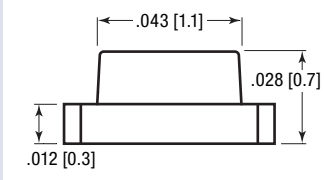
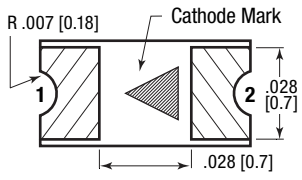
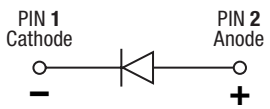


Side

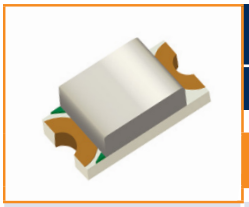


Bottom

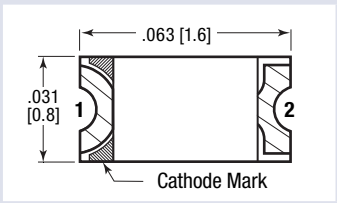


Schematic

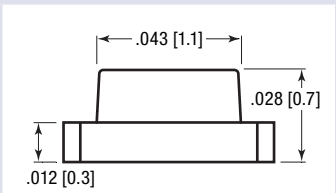
Top View | **0603**



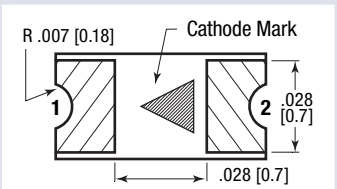
Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
Min	Typ	Max			Min	Typ	Max	Typ	Max			
0603 ▶ 1.6 x 0.8 x 0.7 mm / *Single Color*												
599-0110-007F	R : 625	633	640	AlInGaP	20	23	45	120	2.1	2.5	140	-40 to +100	-40 to +100
599-0120-007F	RO : 620	625	630			90	169	—	2.1	2.5			
599-0130-007F	O : 600	605	610			53	90	—	2.1	2.5			
599-0140-007F	Y : 585	590	595			68	105	—	2.1	2.5			
599-0160-007F	YG : 562	569	575			9	43	—	2.1	2.5			
599-0181-007F	G : 517	525	530	InGaN		195	340	—	3.1	3.5			
599-0191-007F	B : 465	470	475			68	105	—	3.2	3.6			



Top



Side



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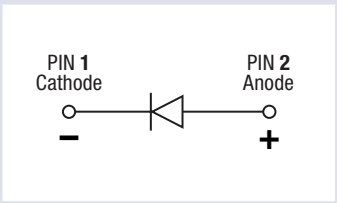
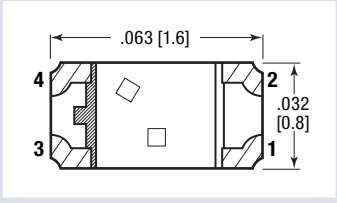
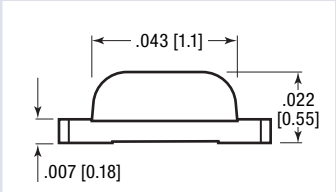


Schematic

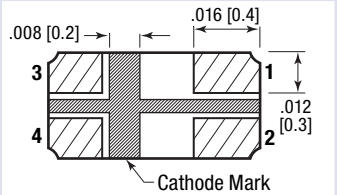
0603 ▶ 1.6 x 0.8 x 0.7 mm / *BiColor*												
597-7725-607F	G : 564	–	578	AlInGaP	20	18	45	71	1.8	2.4	130	-30 to +85	-40 to +85
	Y : 582	–	596			28	71	112					
597-7726-607F	G : 565	–	577			18	45	71	1.9	2.4			
	R : 626	–	640			28	71	112					



Top



Side



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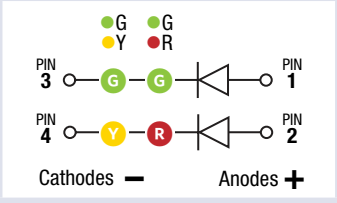
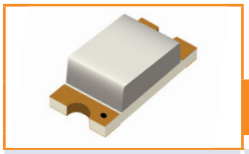
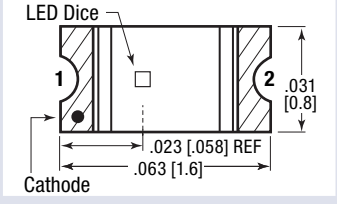


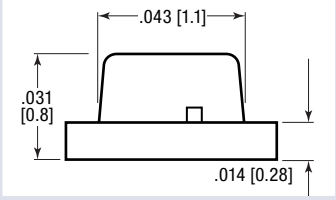
Schematic



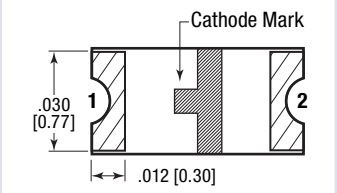
0603 ▶ 1.6 x 0.8 x 0.8 mm / *Single Color*												
597-3326-607F	G : 520	525	530	InGaN	20	90	150	280	3.4	3.8		-20 to +80	-30 to +100
597-3607-607F	B : 465	–	475			28	60	–	2.8	3.8			



Top



Side



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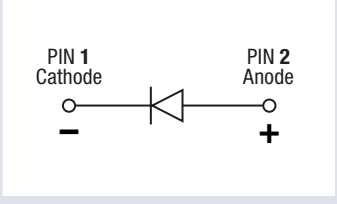
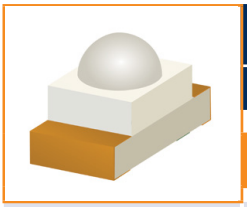
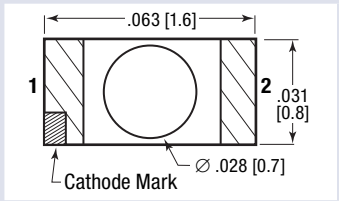


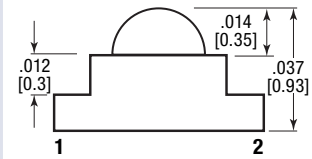
Schematic



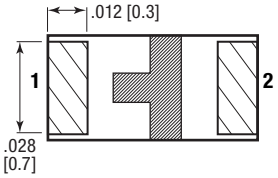
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0603 ▶ 1.6 x 0.8 x 0.93 mm / *Single Color with Lens*													
598-8E20-107F	RO : 615	625	630	AlInGaP	20	350	500	650	1.6	2.4	60	-40 to +85	-40 to +85
598-8E30-107F	O : 600	605	610			430	615	800	1.6	2.4			
598-8E40-107F	Y : 585	590	595			350	590	650	1.6	2.4			
598-8E60-107F	YG : 565	570	575			150	340	530	1.8	2.4			
598-8E80-107F	G : 515	525	535	InGaN		350	775	1200	2.4	3.6			
598-8E90-107F	B : 460	470	475			350	440	530	2.6	3.8			



Top



Side



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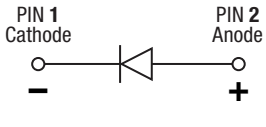
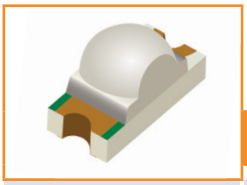
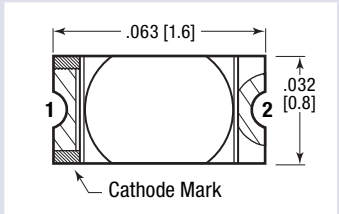


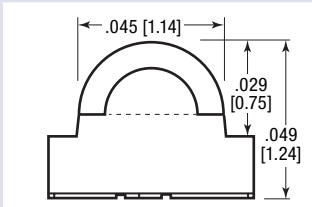
Schematic



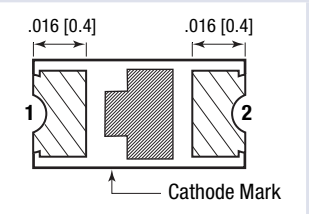
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0603 ▶ 1.6 x 0.8 x 1.24 mm / *Single Color with Lens*													
597-3006-507F	R : 625	630	635	AlInGaP	20	112	174	355	2.0	–	60	-40 to +100	-40 to +100
597-3036-507F	R : 615	620	625			140	185	450					
597-3206-507F	O : 600	605	610			224	405	710					
597-3408-507F	Y : 585	590	595	AlInGaP/ GaAs		180	320	560					
597-3409-507F	Y : 584	587	590			180	290	560					
597-3506-507F	YG : 568	571	575			56	140	180					
597-3316-507F	G : 557	560	565	AlInGaP		14	34	45					



Top



Side



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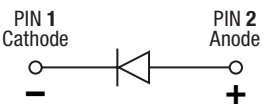
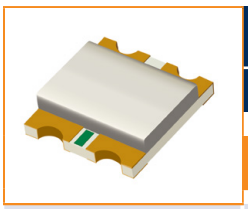


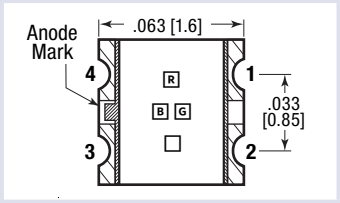
Schematic

Top View | **0606**

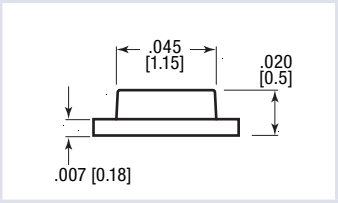


0606 Package ▶ 1.6 x 1.6 x 0.5 mm / *TriColor with Zener Diode*

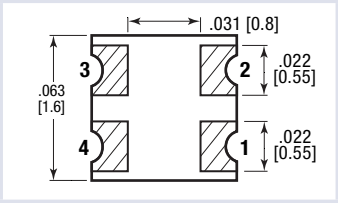
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
597-7715-607F	R : 617	–	629	AlInGaP	5		15		50	1.9	2.3	130	-20 to +80	-30 to +85
	G : 525	–	540	InGaN			71		145	2.9	3.3			
	B : 465	–	475	InGaN			10		30	2.8	3.1			



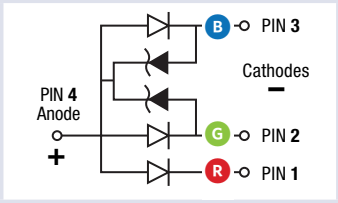
Top



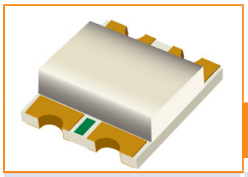
Side



Bottom

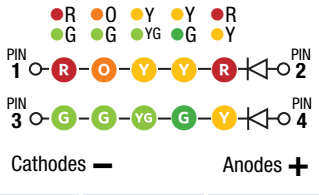


Schematic

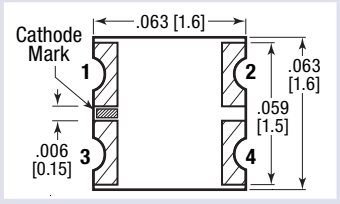


0606 ▶ 1.6 x 1.6 x 0.7 mm / *BiColor and TriColor*

598-8410-207CF	R : 625	633	640	AlInGaP	20	35	65	100	2.1	2.4	140	-40 to +100	-40 to +100
	G : 565	570	575			18	59	80	2.1	2.4			
598-8430-207CF	O : 600	605	610	AlInGaP		70	135	200	2.1	2.4			
	G : 565	570	575			18	59	100	2.1	2.4			
598-8440-207CF	Y : 585	590	595	AlInGaP		70	135	200	2.1	2.4			
	YG : 565	570	575			18	59	100	2.1	2.4			
598-8450-207CF	Y : 585	590	595	AlInGaP		70	135	200	2.1	2.4			
	G : 515	523	530	InGaN		260	580	900	3.0	3.4			
598-8460-207CF	Y : 585	590	595	AlInGaP		90	145	200	2.1	2.4			
	R : 625	633	640			30	60	90	2.1	2.4			



598-8710-307F	R : 625	630	640	AlInGaP	20	35	67	100	2.1	2.4	140	-40 to +100	-40 to +100
	G : 515	520	525	InGaN		260	580	900	3.2	3.4			
	B : 465	470	475	InGaN		60	160	260	3.2	3.4			
598-8720-307F	RO : 620	625	630	AlInGaP		70	135	200	2.1	2.4			
	G : 515	523	530	InGaN		260	580	900	3.2	3.4			
	B : 465	470	475	InGaN		90	175	260	3.2	3.4			
598-8740-307F	Y : 585	590	595	AlInGaP		70	135	200	2.1	2.4			
	G : 515	523	530	InGaN		200	350	900	3.2	3.4			
	B : 465	470	475	InGaN		60	260	260	3.2	3.4			



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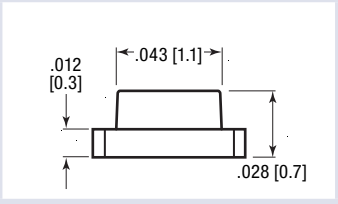

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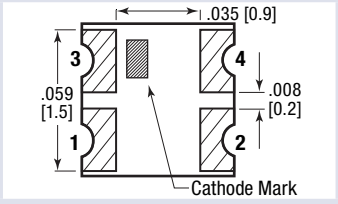

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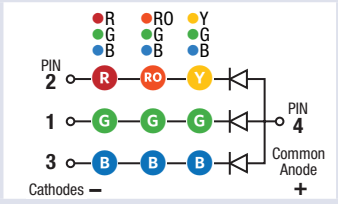
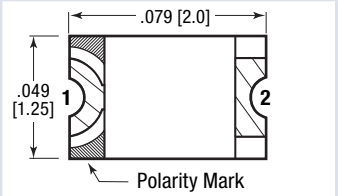


Schematic

	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
0805 Package ▶ 2.0 x 1.25 x 0.7 mm / *Single Color*														
598-8110-107F	R : 625	633	640	AlInGaP	20		20	55	90	2.1	2.4	140	-40 to +100	-40 to +100
598-8120-107F	RO : 620	625	630				120	190	260	2.1	2.4			
598-8130-107F	O : 600	605	610				70	165	260	2.1	2.4			
598-8140-107F	Y : 590	592	595				150	205	260	2.1	2.4			
598-8150-107F	Y : 585	587	590				90	120	150	2.1	2.4			
598-8160-107F	YG : 570	572	575				43	62	80	2.1	2.4			
598-8170-107F	G : 562	566	570				12	28	43	2.1	2.4			
598-8181-107F	G : 520	525	530	InGaN			260	580	900	3.2	3.6			
598-8191-107F	B : 465	470	475				90	145	200	3.2	3.6			
599-0110-007F	R : 625	633	640	AlInGaP	20		15	29	—	2.1	2.5	140	-40 to +100	-40 to +100
599-0120-007F	RO : 620	625	630				90	138	—	2.1	2.5			
599-0130-007F	O : 600	605	610				53	95	—	2.1	2.5			
599-0140-007F	Y : 585	590	595				68	112	—	2.1	2.5			
599-0160-007F	YG : 562	569	575				9	43	—	2.1	2.5			
599-0181-007F	G : 520	525	530	InGaN			195	340	—	3.2	3.6			
599-0191-007F	B : 465	470	475				68	105	—	3.2	3.6			



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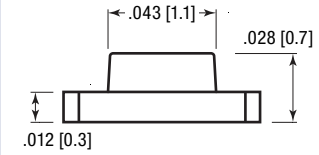

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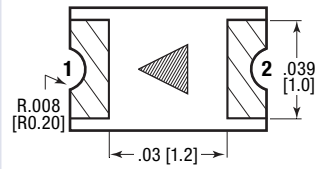

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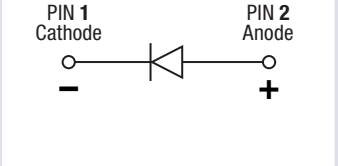
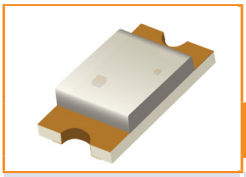
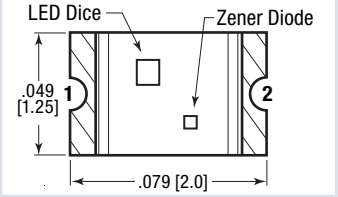


Schematic



0805 ▶ 2.0 x 1.25 x 0.8 mm / *Single Color with Zener*

597-3605-607F	B : 465	–	480	InGaN	2	4.5	15	18	2.8	3.05	130	-20 to +80	-30 to +100



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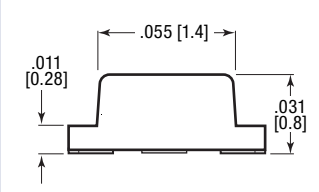

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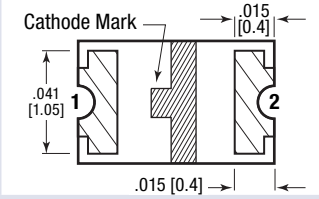

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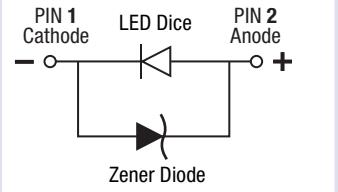
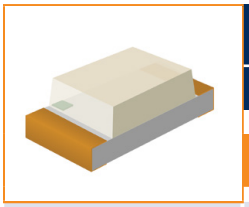
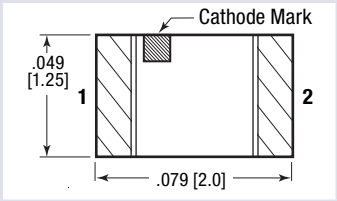


Schematic

Top View | **0805**



Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
Min	Typ	Max			Min	Typ	Max	Typ	Max			
0805 Package ▶ 2.0 x 1.25 x 0.8 mm / *Single Color*												
597-3003-407F	R : 620	626	632	AlInGaP	20	68	91	120	1.9	2.4	140	-40 to +100	-40 to +100
597-3212-407NF	O : 603	605	609			82	110	150	1.9	2.4	140	-40 to +100	-40 to +105
597-3222-407F	A : 583	590	597			25	65	105	1.9	2.4	150	-40 to +85	-40 to +100
597-5111-407F	R : 642	647	653	AlGaAs		7.0	11.7	16.4	1.7	2.3		-30 to +85	
597-5202-407F	O : 600	606	612	GaP		2.2	3.7	5.2	2.2	2.8			
597-5311-407F	G : 562	567	573			3.8	6.4	9.0	2.1	2.8			
597-5411-407F	YG : 570	572	577			7	11.7	16.4	2.1	2.8			



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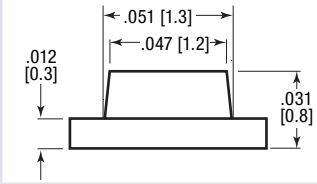
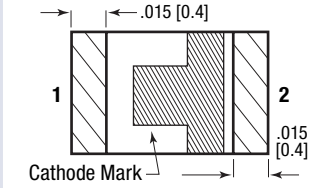


Side



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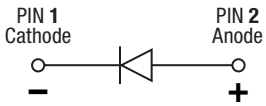
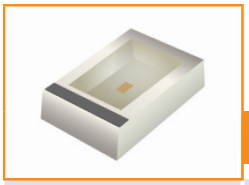
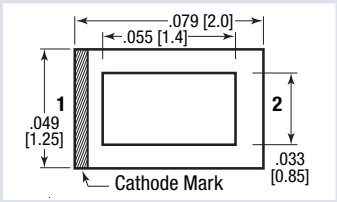


Schematic



0805 ▶ 2.0 x 1.25 x 0.8 mm / *Single Color with Reflector Cup*												
597-5006-507F	R : 625	630	635	AlInGaP	20	40	75	–	2.0	–	116	-40 to +85	-40 to +100
597-5036-507F	R : 615	620	625			63	120	–	2.0	–			
597-5206-507F	O : 602	605	608			100	160	–	2.0	–			
597-5316-507F	G : 557	560	563			6.3	16	–	2.2	–			
597-5326-507F	G : 519	527	536	InGaN	5	56	140	–	3.0	–		-40 to +100	
597-5406-507F	Y : 587	590	593	AlInGaP	20	100	160	–	2.0	–		-40 to +85	
597-5506-507F	YG : 569	572	575			25	45	–	2.2	–			
597-5606-507F	B : 464	470	476	InGaN	5	14	36	–	2.9	–		-40 to +100	
597-5906-507F	W : X = 0.30 / Y = 0.28					56	140	–	2.9	–			



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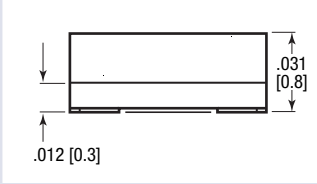
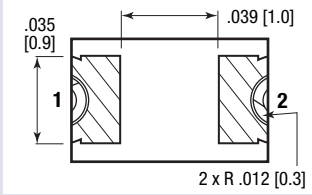


Side



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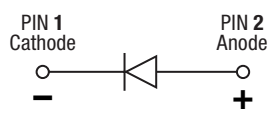
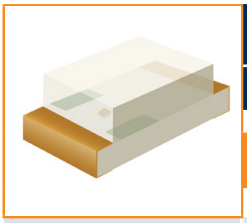
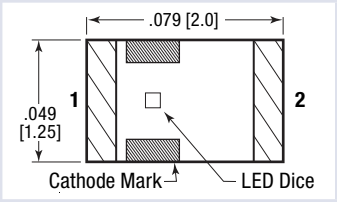


Schematic



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0805 ▶ 2.0 x 1.25 x 1.1 mm / *Single Color*									*Fwd V @ 20 mA*				
597-3006-607F	R : –	630	–	GaP	10	2	6	–	2.0	2.6	130	-55 to +85	-55 to +85
597-3305-607F	G : –	569	–			2.8	8	–	2.1	2.6			
597-3405-607F	Y : –	588	–			2	6	–	2.1	2.6			



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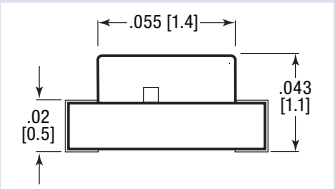

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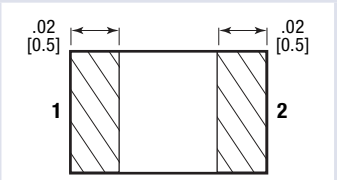

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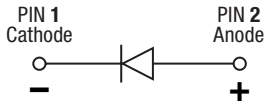
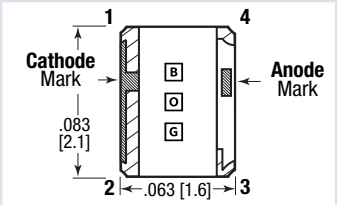


Schematic

Special ChipLED ▶ 2.1 x 1.6 x 0.55 mm / *TriColor*									*Fwd V @ 20 mA*				
597-7713-607F	B : 463	–	477	InGaN	10	45	71	112	3.2	3.8	130	-20 to +80	-30 to +100
	G : 518	–	532	InGaN		112	180	280	3.25	3.8			
	O : 598	–	612	AlInGaP	20	71	–	180	2.1	2.5		-30 to +85	-40 to +85



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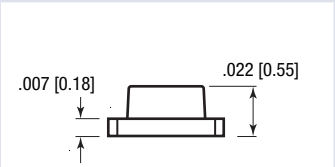
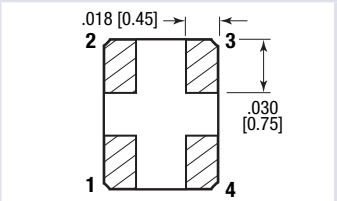


Side



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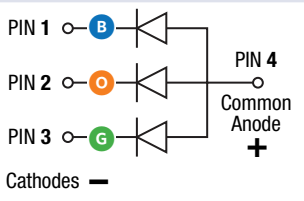
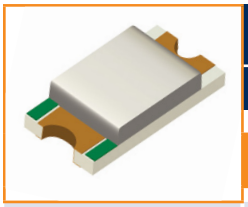
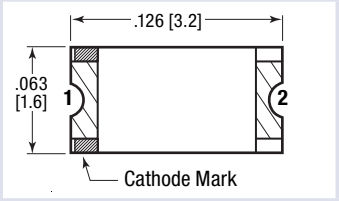


Schematic

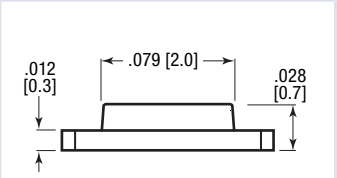
Top View | **1206**



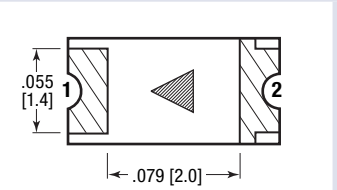
Color : Wavelength (nm)				Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1206 Package ▶ 3.2 x 1.6 x 0.7 mm / *Single Color*													
598-8210-107F	R : 625	633	640	AlInGaP	20	20	55	90	2.1	2.4	140	-40 to +100	-40 to +100
598-8220-107F	RO : 620	625	630			70	120	200	2.1	2.4			
598-8230-107F	O : 600	605	610			90	175	260	2.1	2.4			
598-8240-107F	Y : 590	592	595			150	205	260	2.1	2.4			
598-8250-107F	Y : 585	587	590			90	120	150	2.1	2.4			
598-8260-107F	YG : 570	572	575			43	70	100	2.1	2.4			
598-8270-107F	G : 562	566	570			18	30	43	2.1	2.4			
598-8281-107F	G : 517	525	530	InGaN		260	580	900	3.2	3.5			
598-8291-107F	B : 465	470	475			90	175	260	3.2	3.5			
599-0210-007F	R : 625	633	640	AlInGaP	20	15	29	—	2.1	2.5	140	-40 to +100	-40 to +100
599-0220-007F	RO : 620	625	630			53	90	—	2.1	2.5			
599-0230-007F	O : 600	605	610			68	112	—	2.1	2.5			
599-0240-007F	Y : 585	587	590			68	126	—	2.1	2.5			
599-0260-007F	YG : 562	566	570			14	54	—	2.1	2.5			
599-0281-007F	G :517	525	530	InGaN		195	340	—	3.2	3.6			
599-0291-007F	B : 465	470	475			68	105	—	3.2	3.6			



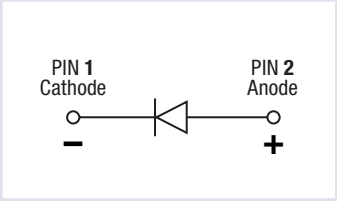
Top



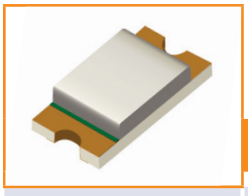
Side



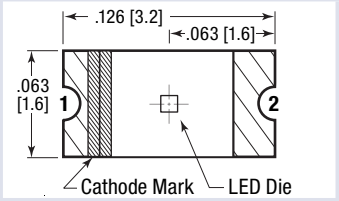
Bottom



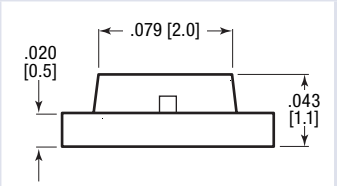
Schematic



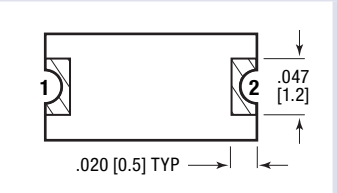
1206 ▶ 3.2 x 1.6 x 1.1 mm / *Single Color*													
597-3007-607F	R : –	621	–	GaP	20	4.0	8	30	2	2.6	130	-55 to +85	-55 to +85
597-3302-607F	G :	569			10	4	8	30	2.1	2.6			
597-3403-607F	Y : 585	–	592	GaAsP on GaP	10	4.5	–	18	2.1	2.6		-40 to +85	-40 to +85



Top



Side



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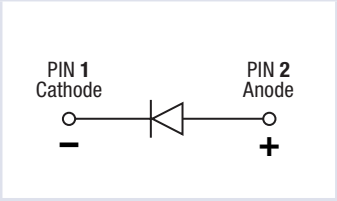
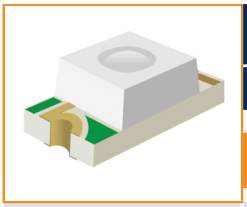
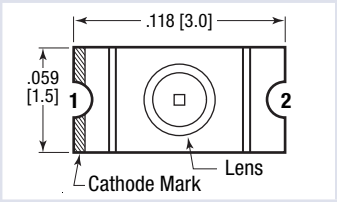


Schematic

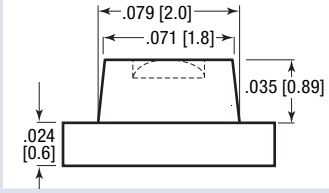


1206 ▶ 3.0 x 1.5 x 1.5 mm / *Single Color with Lens*

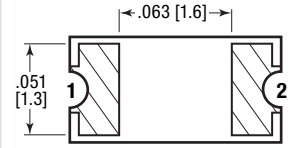
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
597-3111-407F	R : 640	647	655	AlGaAs	20	12	33.6	55.2	1.7	2.0	70	-30 to +85	-40 to +100
597-3311-407NF	G : 560	567	575	GaP		17	30	48	2.1	2.5		-40 to +100	-40 to +120
597-3401-407NF	Y : 589	592	595	GaAsP		8.3	20	33.6	2.2	2.5		-40 to +100	-40 to +120
597-3325-407F	G : –	525	–	InGaN		150	–	680	3.3	3.8	50	-40 to +100	-40 to +110
597-3612-407F	B : –	470	–	InGaN		47	–	220	3.3	3.8		-40 to +100	-40 to +110



Top



Side



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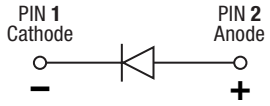
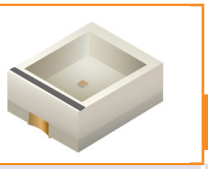
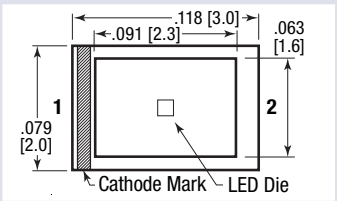


Schematic

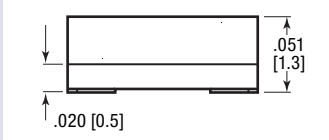


1208 Package ▶ 3.0 x 2.0 x 1.3 mm / *Single Color with Reflector Cup*

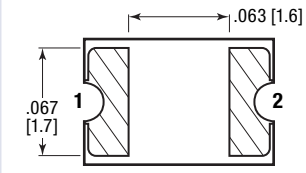
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
597-3002-507F	R : 625	630	635	AlInGaP	20	25	63	160	2.2	2.7	110	-40 to +85	-40 to +100
597-3021-507F	R : 646	653	659	GaAsP		2.2	6.3	10.4	2	2.8		-30 to +85	-40 to +85
597-3032-507F	R : 615	620	625	AlInGaP		40	100	250	2.2	2.7		-40 to +85	-40 to +100
597-3111-507F	R : 656	662	668	AlGaAs		5.6	16	26.4	1.75	2.5		-30 to +85	-40 to +85
597-3202-507F	O : 602	605	608	AlInGaP		63	160	400	2.2	2.7		-40 to +85	-40 to +100
597-3211-507F	O : 604	612	618	GaAsP		3.6	10	16.4	2	2.8		-30 to +85	-40 to +85
597-3301-507F	G : 565	575	581	GaP		5.6	25	44.4	2.2	2.8		-30 to +85	-40 to +85
597-3312-507F	G : 558	560	564	AlInGaP		9	18	36	2.1	2.5		-40 to +100	-40 to +100
597-3322-507F	G : 520	525	535	InGaN		56	140	360	3.2	4.0		-30 to +85	-40 to +100
597-3401-507F	Y : 580	588	596	GaAsP		2.2	6.3	10.4	2.1	2.8		-30 to +85	-40 to +85
597-3402-507F	Y : 587	590	593	AlInGaP		63	160	400	2.2	2.7		-40 to +85	-40 to +100
597-3502-507F	YG : 569	572	575	AlInGaP		10	25	63	2.2	2.7		-40 to +85	-40 to +100
597-3602-507F	B : 465	470	475	InGaN		36	100	—	3.3	4.2		-30 to +85	-40 to +100
597-3902-507F	W : X = 0.30 / Y = 0.30			InGaN		360	900	1400	3.2	4.3		-30 to +85	-40 to +100



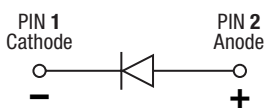
Top



Side

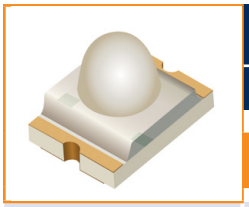


Bottom

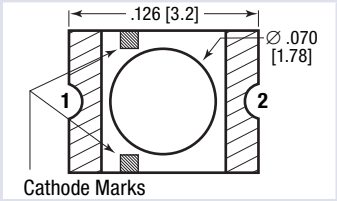


Schematic

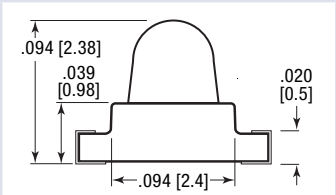
Top View | 1209 & 1210



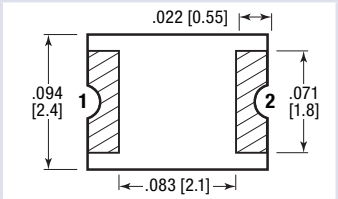
Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
Min	Typ	Max			Min	Typ	Max	Typ	Max			
1209 Package ▶ 3.2 x 2.4 x 2.38 mm / *Single Color with Lens*												
597-3001-607F	● R :	630		AlInGaP	20	710	850	2800	2.0	2.4	25	-55 to +85	-55 to +85
597-3041-607F	● RO :	615		AlInGaP		710	2605	4500	2.0	2.4		-30 to +85	-40 to +85
597-3201-607F	● O : 600	605	610	AlInGaP		450	1200	4500	2.0	2.4		-55 to +85	-55 to +85
597-3321-607F	● G :	525		InGaN		710	2000	4500	2.8	3.6		-20 to +80	-30 to +100
597-3401-607F	● Y : 587	590	595	AlInGaP		450	710	1800	2.0	2.4		-55 to +85	-55 to +85
597-3501-607F	● YG :	570		AlInGaP		180	600	1800	2.0	2.4		-55 to +85	-55 to +85
597-3601-607F	● B : 465	470	475	InGaN		560	1400	2240	3.4	3.8		-20 to +80	-30 to +100



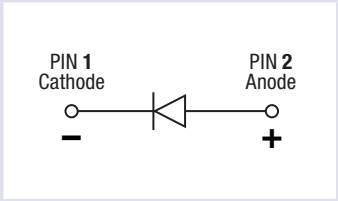
Top



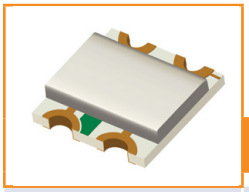
Side



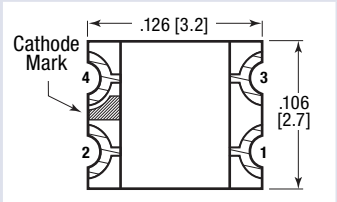
Bottom



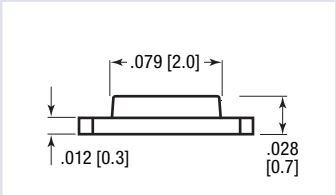
Schematic



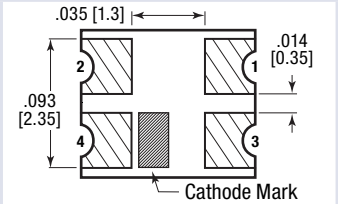
1210 Package ▶ 3.2 x 2.7 x 0.7 mm / *Bicolor*												
598-8610-207F	● R : 630	635	640	AlInGaP	20	40	65	90	2.1	2.4	140	-40 to +100	-40 to +100
	● G : 565	570	575			30	40	50					
598-8621-207F	● RO : 620	625	630	AlInGaP		90	120	150	2.1	2.4			
	● G : 520	525	530	InGaN		260	580	900	3.0	3.4			
598-8640-207F	● Y : 585	590	595	AlInGaP		80	155	230	2.1	2.4			
	● G : 565	570	575			30	40	50					
598-8660-207F	● Y : 585	590	595	AlInGaP		90	145	200	2.1	2.4			
	● R : 630	635	640			40	65	90					



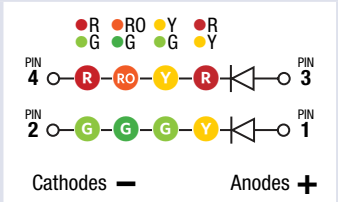
Top



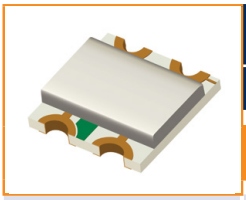
Side



Bottom

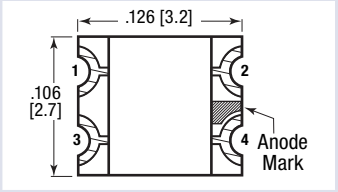


Schematic

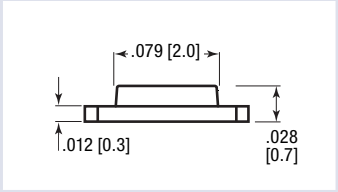


1210 Package ▶ 3.2 x 2.7 x 0.7 mm / *Tricolor*

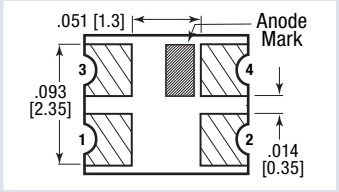
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
598-8610-307F	R : 630	635	640	AlInGaP	20		40	65	90	2.1	2.4	140	-40 to +100	-40 to +100
	G : 515	520	525	InGaN			260	580	900	3.1	3.4			
	B : 465	470	475	InGaN			60	160	260	3.1	3.4			
598-8920-307F	RO : 620	625	630	AlInGaP			90	120	150	2.1	2.4			
	G : 515	520	525	InGaN			260	580	900	3.1	3.4			
	B : 465	470	475	InGaN			90	175	260	3.1	3.4			
598-8940-307F	Y : 585	590	595	AlInGaP			60	175	260	2.1	2.4			
	G : 515	520	525	InGaN			260	580	900	3.1	3.4			
	B : 465	470	475	InGaN			60	160	260	3.1	3.4			



Top



Side



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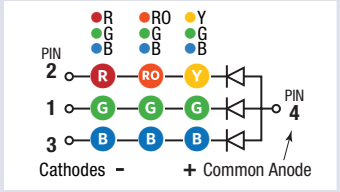
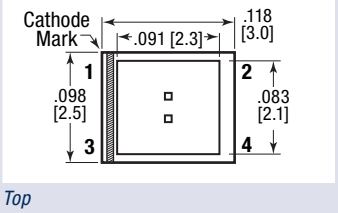


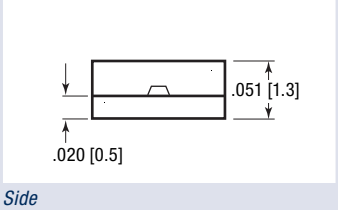
Schematic

1210 ▶ 3.0 x 2.5 x 1.3 mm / *BiColor with Reflector Cup*

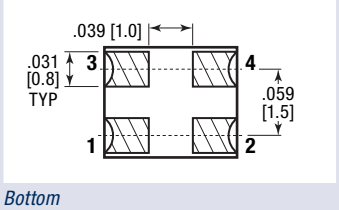
597-7701-507F	R : 620	630	640	GaAsP	20	3.6	6.3	11	2.0	2.8	100	-30 to +85	-40 to +85
	G : 560	570	580	GaP		9	20	45	2.2	2.8			
597-7721-507F	Y : 582	589	596	GaAsP / GaP		5.6	10	18	2.1	2.8			
	G : 560	570	580	GaP		9	21	45	2.2	2.8			



Top



Side



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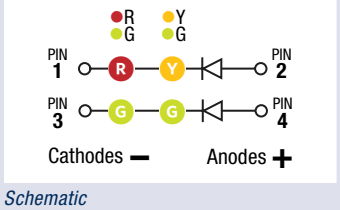
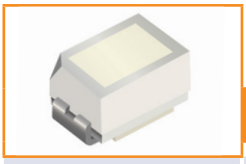
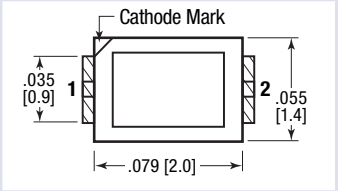


Schematic

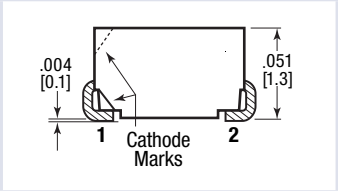


Mini PLCC-2 ▶ 2.0 x 1.4 x 1.3 mm / *Single Color, Low Current*

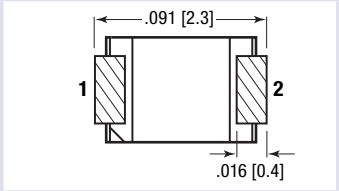
597C-3008-207F	R : 624	630	636	AlInGaP	2	3.55	9	14	1.8	2.2	120	-40 to +100	-40 to +100
597C-3208-207F	O : 600	606	609			5.6	14	22.4	1.8	2.2			
597C-3408-207F	Y : 580	587	595			4.5	11	18	1.8	2.2			
597C-3608-207F	IceB : X = 0.20 / Y = 0.30			InGaN		9	15.7	22.4	2.75	3.1			
597C-3908-207F	W : X = 0.33 / Y = 0.33					9	23	36	2.75	3.1			



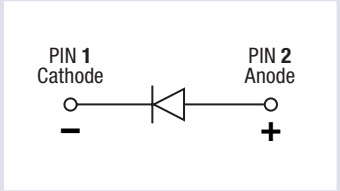
Top



Side

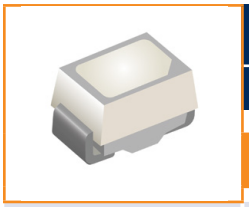


Bottom

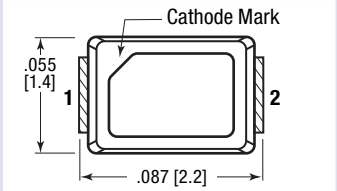


Schematic

Top View | Mini PLCC-2 & PLCC-2



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
Mini PLCC-2 ▸ 2.2 x 1.4 x 1.3 mm / *Single Color*													
598-8C10-107F	R : 620	625	630	AlInGaP	20	280	405	530	1.8	2.4	120	-40 to +85	-40 to +100
598-8C30-107F	O : 600	605	610			230	290	350	1.8	2.4			
598-8C40-107F	Y : 585	590	595			280	405	530	1.8	2.4			
598-8C60-107F	YG : 565	570	575			40	65	90	1.8	2.4			
598-8C80-107F	G : 520	525	550	InGaN		1500	1900	2300	2.8	3.3			
598-8C90-107F	B : 465	470	475			350	440	530	2.8	3.3			



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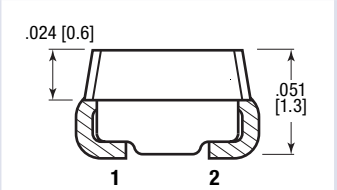
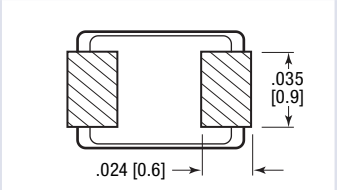


Side



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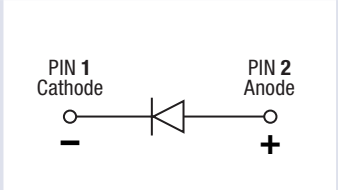
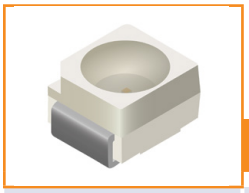
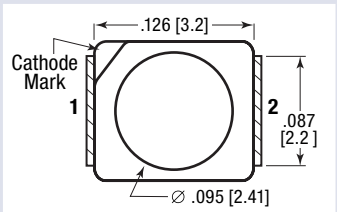


Schematic



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
PLCC-2 ▸ 3.5 x 2.8 x 1.9 mm / *Single Color Low Current*													
597-3008-207F	R : 624	630	636	AlInGaP	2	7.1	12.6	18	1.8	2.2	120	-40 to +100	-40 to +100
597-3208-207F	O : 600	606	609			11.2	19.6	28	1.8	2.2			
597-3308-207F	G : 566	570	575			3.55	6.28	9.0	1.8	2.2			
597-3408-207F	Y : 580	587	595			9	15.7	22.4	1.8	2.2			



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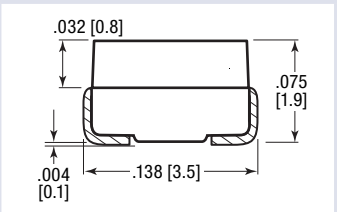

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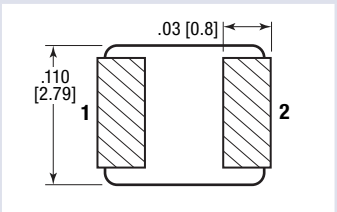

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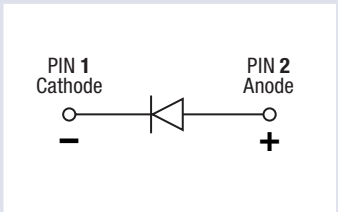

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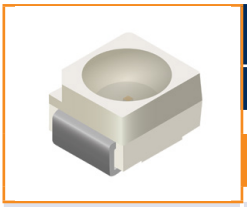
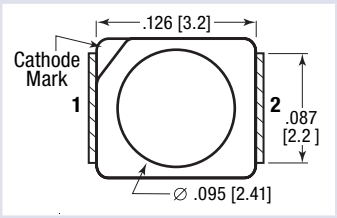


	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
PLCC-2 ▶ 3.5 x 2.8 x 1.9 mm / *Single Color*													
597-3001-207F	R : –	628	–	GaAsP	10	4.5	–	18	2	2.5	120	-40 to +100	-40 to +100
597-3002-307F	R : –	633	–	AlInGaP	20	112	160	224	2	2.3			
597-3211-207F	O : –	602	–	GaP	20	11.2	15	–	2.2	2.6		-55 to +100	-55 to +100
597-3225-307F	A : –	592	–	AlInGaP	20	112.5	140	–	2.2	2.6			
597-3231-207F	Y : 580	587	595	AlInGaP	20	71	100	140	2	2.4			
597-3301-207F	G : 564	570	576	GaAsP/GaP	10	11.2	19.6	28	2	2.5		-40 to +100	-40 to +100
597-3306-207F	G : 564	570	576	GaAlP	10	14	24	36	2	2.5			
597-3323-307F	G : –	525	–	InGaN	20	180	224	–	3.7	4.36		-55 to +100	-55 to +100
597-3401-207F	Y : 580	587	595	GaAsP/GaP	10	7.1	12.6	18	2	2.5		-40 to +100	-40 to +100
597-3601-207F	B : 465	471	477	InGaN	10	14	–	34	3.1	3.7		-40 to +100	-40 to +100



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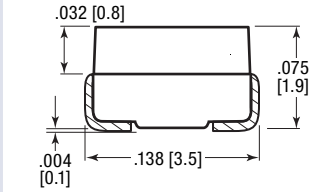
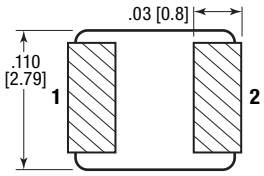


Side



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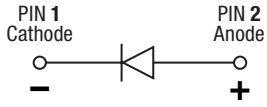
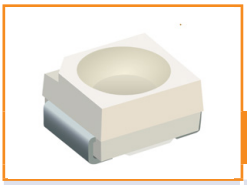
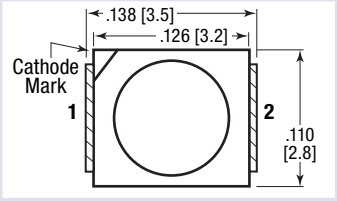


Schematic

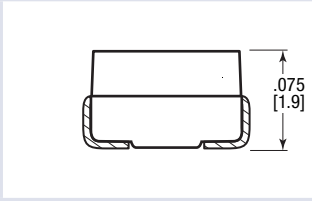


3528 Package ▶ 3.5 x 2.8 x 1.9 mm / *Single Color*

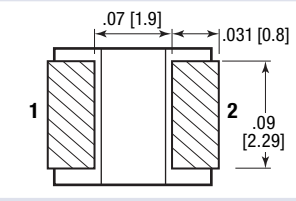
598-8B10-107F	R : 615	623	630	AlInGaP	20	200	380	560	1.8	2.4	120	-40 to +85	-40 to +100
598-8B30-107F	O : 600	605	610			260	345	430	1.8	2.4			
598-8B40-107F	Y : 585	590	595			200	315	430	1.8	2.4			
598-8B60-107F	YG : 565	570	575			40	80	120	1.8	2.4			
598-8B80-107F	G : 520	525	530	InGaN		1200	1750	2300	2.8	3.5			
598-8B90-107F	B : 465	470	475			230	395	560	2.8	3.5			



Top



Side



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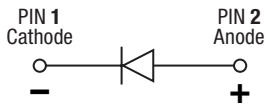
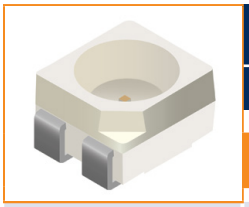
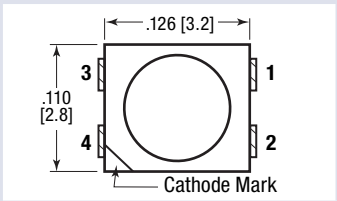


Schematic

Top View | **PLCC-4**



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
PLCC-4 ▶ 3.5 x 2.8 x 1.9 mm / *Single Color High Current*													
597-3029-207F	● R : 620	625	630	AlInGaP	50	1120	1800	2800	2.15	2.5	120	-40 to +110	-40 to +110
597-3209-207F	● O : 600	606	609	AlInGaP	50	1400	2240	4500	2.15	2.5			
597-3329-207F	● G : 516	525	540	InGaN	30	1120	1800	2240	3.4	3.8			
597-3409-207F	● Y : 586	589	595	AlInGaP	50	1120	1800	2240	2.15	2.65			
597-3609-207F	● B : 463	469	475	InGaN	30	280	450	710	3.4	3.8			
597-3909-207F	○ W : X = 0.30 / Y = 0.28			InGaN	30	1120	1600	2240	3.3	3.8			



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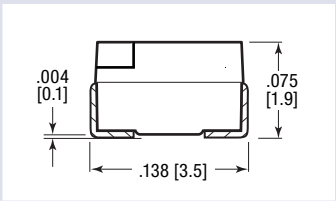
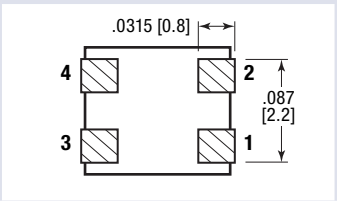


Side



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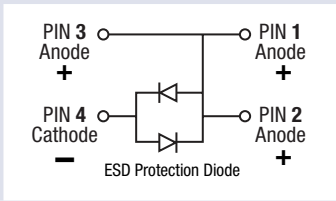
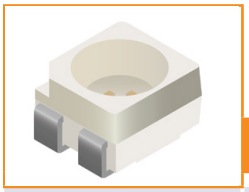
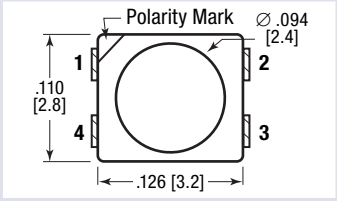


Schematic



PLCC-4 ▶ 3.5 x 2.8 x 1.9 mm / *Bicolor Low Current*													
597-7701-207F	● R : 624	630	636	AlInGaP	2	4.5	–	18	1.8	2.2	120	-40 to +100	-40 to +100
	● G : 566	570	575			2.8	–	11.2	1.8	2.2			
597-7721-207F	● Y : 580	587	595	AlInGaP		4.5	–	18	1.8	2.2			
	● G : 566	570	575			2.8	–	11.2	1.8	2.2			



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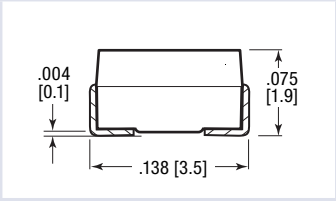
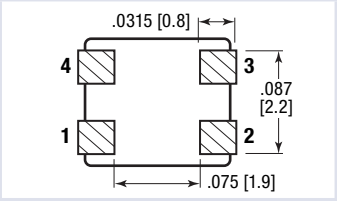


Side



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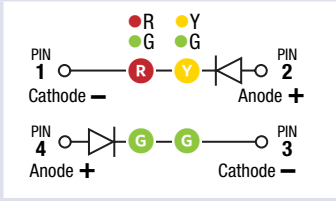
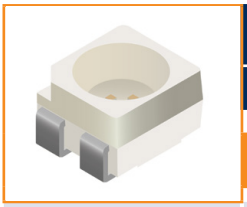
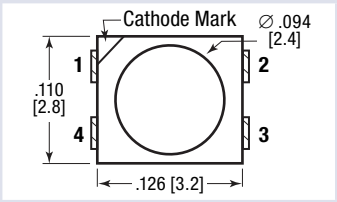


Schematic



PLCC-4 ▶ 3.5 x 2.8 x 1.9 mm / *Bicolor and Tricolor*

	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
597-7731-207F	● R : 627	633		639	AlInGaP	20	56	112	140	2.0	2.3	120	-40 to +100	-40 to +100
	● Y : 580	587		595	AlInGaP		90	140	224	2.0	2.4			
597-7752-007F	● R : 620	–		630	AlInGaP		200	400	600	2.0	2.2			
	● G : 515	520		530	InGaN		650	–	1500	3.2	3.6			



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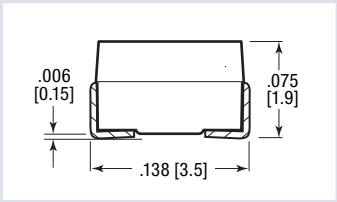
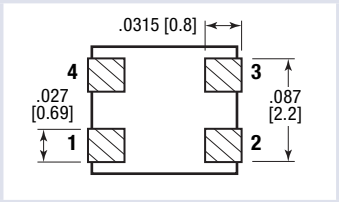


Side



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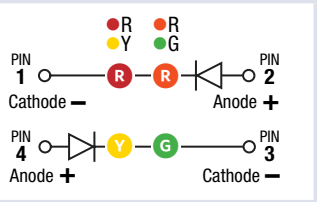
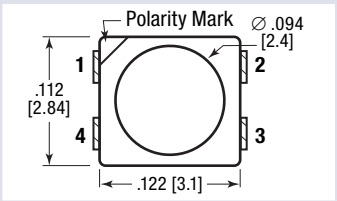


Schematic

597-7711-307F	● R :	626		AlInGaP	20	40	80		1.9	2.4	120	-55 to +100	-55 to +100
	● G :	525		InGaN		99	160	180	3.4	4.05			
	● B :	470		InGaN		25	40	60	3.4	4.05			



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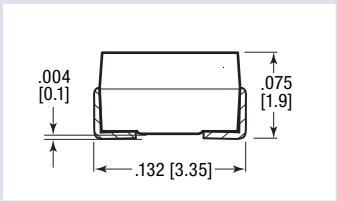
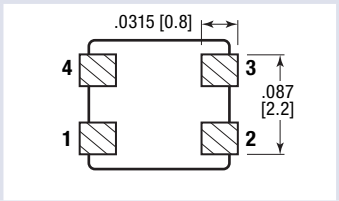


Side



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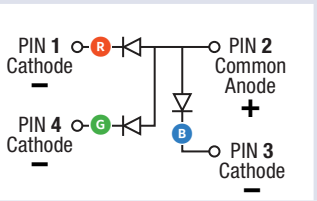
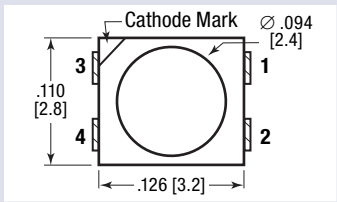


Schematic

597-7714-007F	● RO : 620	625		630	AlInGaP	20	180	230	380	2.1	2.3	120	-20 to +85	-35 to +85
	● G : 520	525		530	InGaN		650	1000	1200	3.2	3.4			
	● B : 465	468		472.5	InGaN		150	230	350	3.2	3.4			
597-7791-907F	● R : 620	625		630	AlInGaP/ GaAs		520	850	1150	2.1	2.4		-30 to +85	-40 to +100
	● G : 525	530		535	InGaN		800	1650	1900	3.2	3.6			
	● Y : 585	590		595	AlInGaP/ GaAs		520	800	1150	2.1	2.4			



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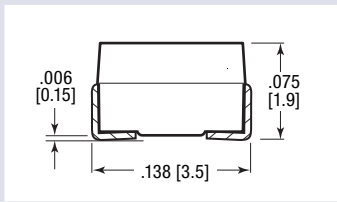
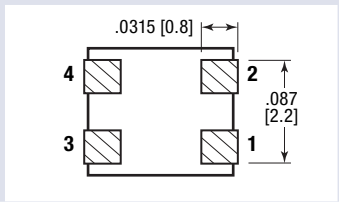


Side



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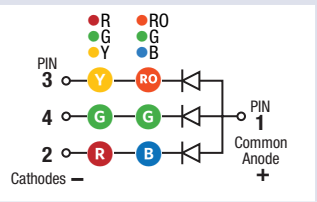
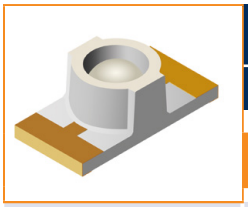
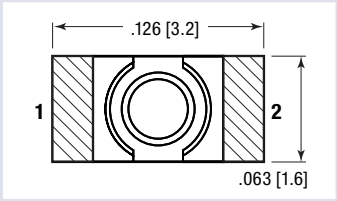


Schematic

Reverse Mount | 1206



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1206 Package Reverse Mount ▶ 3.2 x 1.6 x 1.1 mm / *Single Color*													
597-6001-607F	● R : –	631	–	AlInGaP	20	18	–	280	2.0	2.4	70	-55 to +85	-55 to +85
597-6201-607F	● O : –	605	–	AlInGaP		71	–	450	2.0	2.4			
597-6301-607F	● G : –	525	–	InGaN		280	–	1120	3.0	3.8			
597-6401-607F	● Y : –	587	–	AlInGaP		28	–	450	2.0	2.4			
597-6501-607F	● YG : 567	–	577	AlInGaP		28	–	180	2.0	2.4			
597-6601-607F	● B : 465	–	475	InGaN		112	–	280	3.0	3.8			
597-6901-607F	○ W : X = 0.304 / Y = 0.301			InGaN	5	45		112	3.0	3.15	150	-20 to +80	-40 to +85
1206 Reverse Mount ▶ 3.2 x 1.6 x 1.1 mm / *Single Color with Zener Diode*													
597-6325-607F	● G : 520	–	535	InGaN	20	280	–	1120	3.0	3.8	70	-20 to +80	-30 to +100



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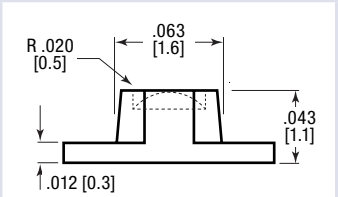
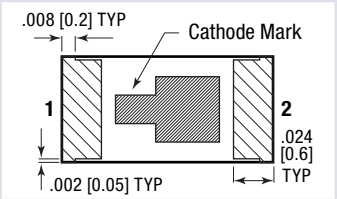


Side



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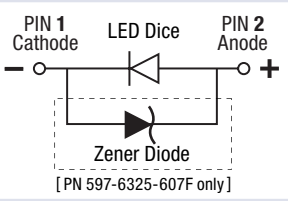
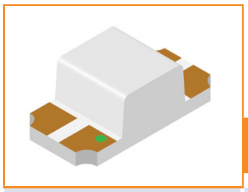
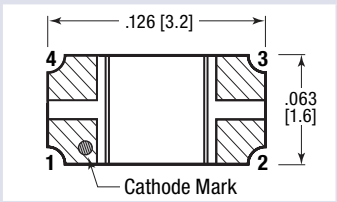


Schematic



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1206 Reverse Mount ▶ 3.2 x 1.6 x 1.1 mm / *BiColor*													
597-7703-607F	● R : –	631	–	AlInGaP	20	28	55	112	2.0	2.4	130	-30 to +85	-40 to +85
	● G : 567	571	577	AlInGaP		28	45	112	2.0	2.4			
597-7783-607F	● R : –	631	–	AlInGaP		28	45	112	2.0	2.4		-20 to +80	-30 to +100
	● B : –	470	–	InGaN		28	45	180	3.3	3.8			
597-7784-607F	● O : –	605	–	AlInGaP		71	–	180	2.0	2.4		-20 to +80	-30 to +100
	● B : –	470	–	InGaN		45	–	112	3.3	3.8			



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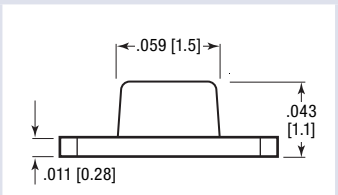
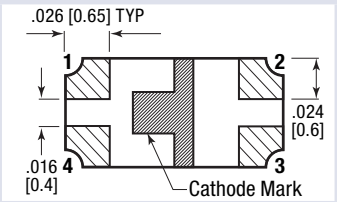


Side



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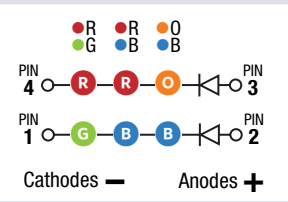
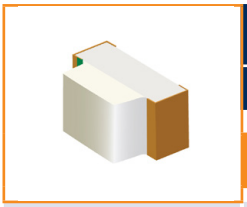
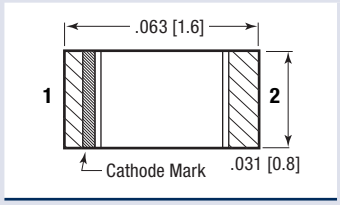


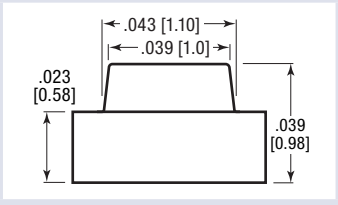
Schematic



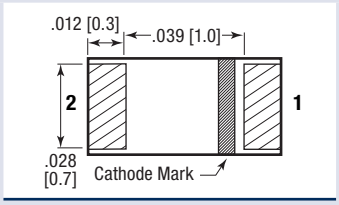
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0603 Package Right Angle ▶ 1.6 x 1.0 x 0.8 mm / *Single Color*													
598-8D10-107F	R : 630	635	640	AlInGaP	20	30	–	90	1.8	2.4	140	-40 to +85	-40 to +100
598-8D20-107F	RO : 620	625	630			150	240	330	1.8	2.4			
598-8D30-107F	O : 600	605	610			90	145	200	1.8	2.4			
598-8D40-107F	Y : 585	590	595			120	160	200	1.8	2.4			
598-8D60-107F	YG : 565	570	575			28	54	80	1.8	2.4			
598-8D80-107F	G : 510	525	535	InGaN		70	135	200	2.8	3.5			
598-8D90-107F	B : 460	470	475			350	440	530	2.8	3.5			



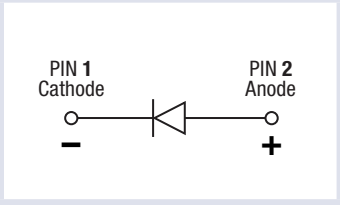
Front PC BOARD



Top

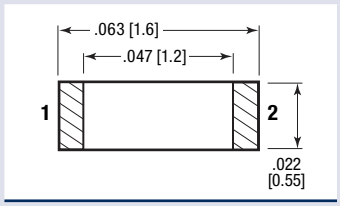


Back PC BOARD

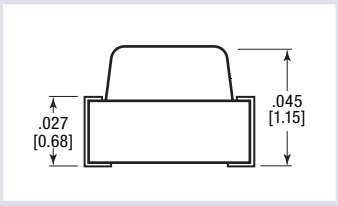


Schematic

	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
0605 Package Right Angle ▶ 1.6 x 1.15 x 0.55 mm / *Single Color*													
597-2003-507F	R : 625	630	635	AlInGaP	20	16	40	–	2.2	–	135	-40 to +85	-40 to +100
597-2033-507F	R : 615	620	625	AlInGaP		25	63	–	2.2	–	135		
597-2203-507F	O : 602	605	608	AlInGaP		40	100	–	2.2	–	135		
597-2323-507F	G : 520	527	535	InGaN	5	22	56	–	3.0	–	130		
597-2403-507F	Y : 587	590	593	AlInGaP	20	36	63	–	2.0	–	135		
597-2503-507F	YG : 569	572	575	AlInGaP		10	25	–	2.2	–	135		
597-2603-507F	B : 464	470	476	InGaN		56	140	–	3.2	–	140		
597-2903-507F	W : X=0.31/Y=0.31			InGaN	10	90	170	–	3.1	–	150		



Front PC BOARD



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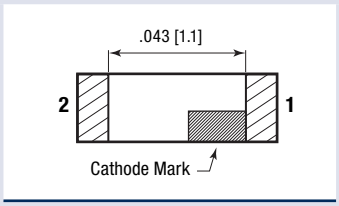
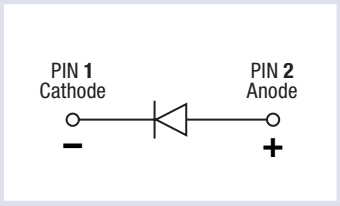


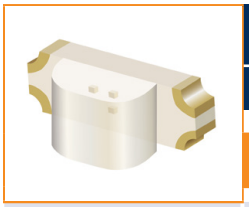
Back PC BOARD



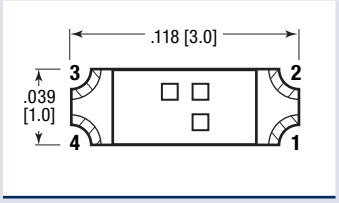
Schematic

NOTE: Right Angle SMDs are shown in the diagrams in front, top, and back views, with front and back oriented with the PCB below. The front and back diagrams flip across the y-axis.

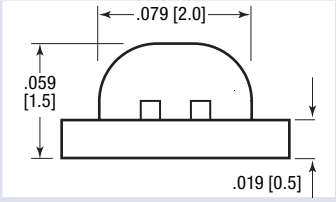
Right Angle | **1208**



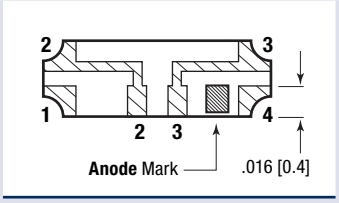
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1208 Package Right Angle ▶ 3.0 x 1.5 x 1.0 mm / *TriColor*													
597-2712-607F	● R :	624		AlInGaP	20	45	–	180	2.0	2.4	130	-20 to +80	-30 to +100
	● G :	525		InGaN		112	–	450	3.5	3.8			
	● B :	470		InGaN		28	–	180	3.5	3.8			



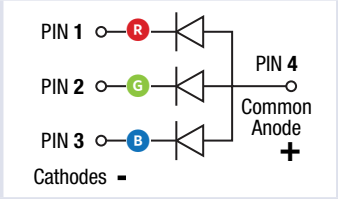
Front — PC BOARD



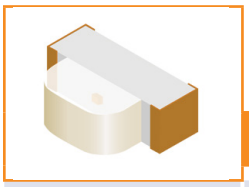
Top



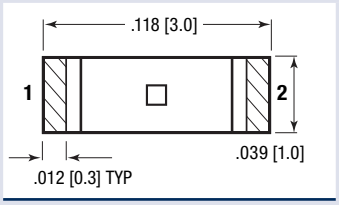
Back — PC BOARD



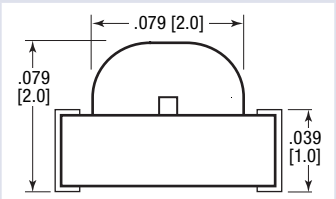
Schematic



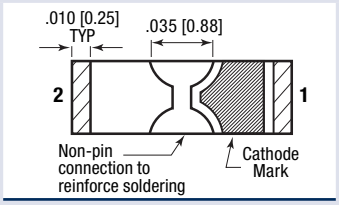
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1208 Right Angle ▶ 3.0 x 2.0 x 1.0 mm / *Single Color*													
597-2002-407NF	● R :	626		AlInGaP	20	–	–	–	1.9	2.4	130	-40 to +85	-40 to +100
597-2111-407F	● R :	647		AlGaAs		6.2	12.4	–	1.7	2.3		-30 to +85	-40 to +100
597-2212-407NF	● O :	606		GaAsP		68	150	–	1.9	2.4		-40 to +85	-40 to +120
597-2222-407F	● Y :	590		AlInGaP		16	65	–	1.9	2.4		-40 to +85	-40 to +100
597-2311-407F	● G :	567		GaP		2.6	5.2	–	2.1	2.8		-30 to +85	-40 to +100
597-2401-407F	● Y : 590	590		GaAsP/GaP		1.5	3	–	2.2	2.8		-30 to +85	-40 to +100
597-2413-407F	● Y :	586		GaP		4.4	8.8	–	2.1	2.8		-30 to +85	-40 to +100



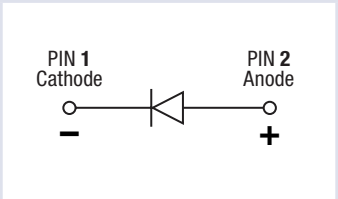
Front — PC BOARD



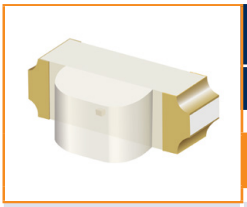
Top



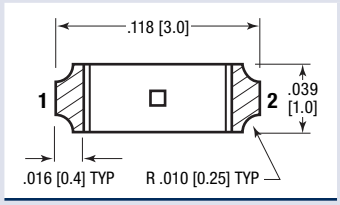
Back — PC BOARD



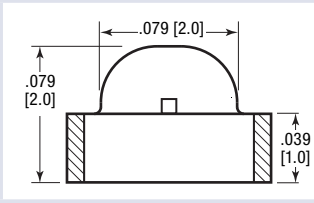
Schematic



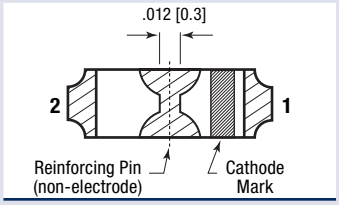
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1208 Right Angle ▶ 3.0 x 2.0 x 1.0 mm / *Single Color*													
597-2002-607F	R : —	631	—	AlInGaP	20	71	125	180	2.0	2.4	130	-55 to +85	-55 to +85
597-2211-607F	O : 598	605	612	AlInGaP	20	71	125	180	2.0	2.4	130	-55 to +85	-55 to +85
597-2222-607F	Y : 587	589	592	AlInGaP	20	71	125	180	2.0	2.4	130	-55 to +85	-55 to +85
597-2501-607F	G : 570	572	577	AlInGaP	20	28	50	71	2.0	2.4	130	-55 to +85	-55 to +85
597-2601-607F	G : 520	525	535	InGaN	20	112	195	280	3.2	3.6	130	-55 to +85	-55 to +85
597-2901-607F	B : 465	470	475	InGaN	20	71	125	180	3.4	3.8	130	-55 to +85	-55 to +85



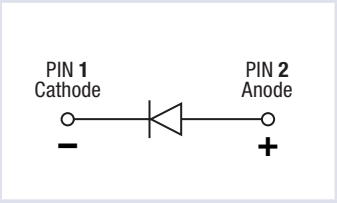
Front PC BOARD



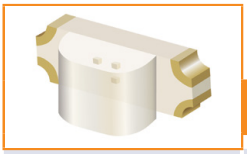
Top



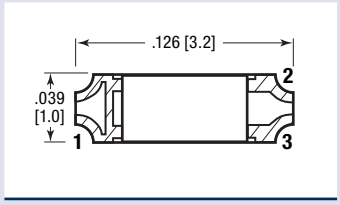
Back PC BOARD



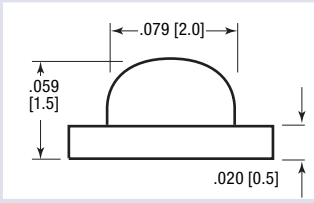
Schematic



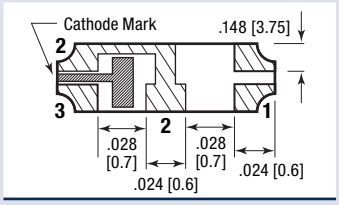
	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1208 Right Angle ▶ 3.0 x 2.0 x 1.0 mm / *BiColor*													
597-2732-607F	R : 624		638	AlInGaP	20	40	—	112		2.4	130	-30 to +85	-40 to +85
	Y : 587		594.5			45	—	180		2.4			
597-2771-607F	R : 624	639	638	AlInGaP	20	40	—	112		2.4	130	-30 to +85	-40 to +85
	G : 570.5	574	576.5			28	—	71		2.4			



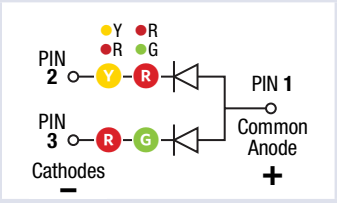
Front PC BOARD



Top

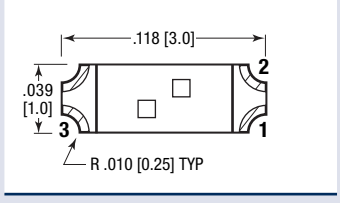


Back PC BOARD



Schematic

597-2723-607F	G : 567	571	576	AlInGaP	20	18	35	112	2.0	2.4	130	-55 to +85	-55 to +85
	Y : 582	589	597			28	75	118					
597-2724-607F	Y : —	589	—	AlInGaP	20	71	150	280	2.0	2.4	130	-40 to +85	-40 to +105
Reverse Polarity	G : —	571	—			18	50	112					
597-2751-607F	R : —	631	—	AlInGaP	20	18	45	—	2.0	2.4	130	-55 to +85	-55 to +85
	G : 567	571	576			18	35	112					



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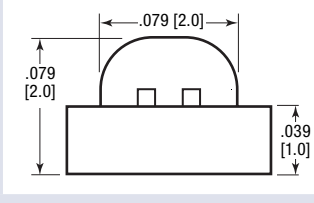

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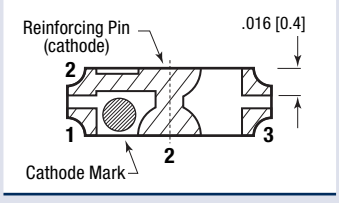

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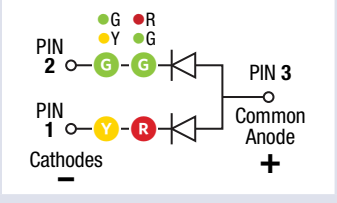
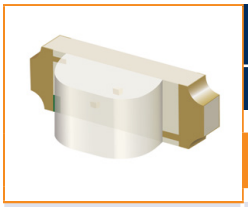
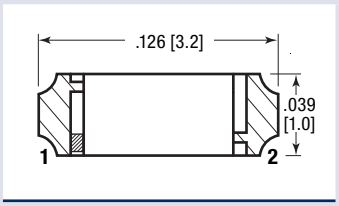


Schematic

Right Angle | **1208**



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
	Min	Typ	Max			Min	Typ	Max	Typ	Max			
1208 Right Angle ▶	**3.2 x 1.5 x 1.0 mm / *Single Color***												
598-8310-117F	R : 625	635	640	AlInGaP	20	40		90	2.1	2.4	140	-40 to +100	-40 to +100
598-8320-117F	RO : 620	625	630			120	150	200					
598-8330-117F	O : 600	–	610			70	110	150					
598-8340-117F	Y : 590	–	595			90	140	200					
598-8350-117F	Y : 585	–	590			90	140	200					
598-8360-117F	YG : 570	–	575			43	65	80					
598-8370-117F	G : 563		570			18	28	43					
598-8380-117F	G : 515	520	525	InGaN		260	480	900	3.1	3.4			
598-8391-117F	B : 465	470	475			90	170	260	3.2	3.5			



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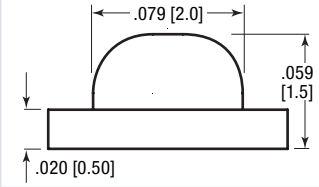

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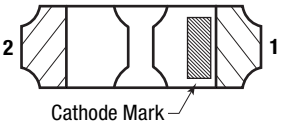

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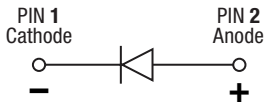
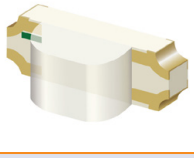
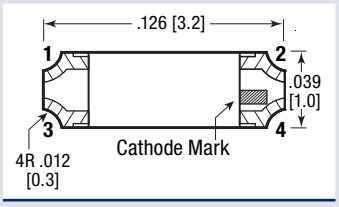


Schematic



1208 Right Angle ▶	**3.2 x 1.5 x 1.0 mm / *BiColor***												
598-8510-207F	R : 625	632	640	AlInGaP	20	40	80	120	2	2.4	140	-40 to +100	-40 to +100
	YG:562	567	575			30	40	50					
598-8520-207F	O : 620	625	630	AlInGaP		90	150	200					
	YG:562	567	570			30	40	50					
598-8530-207F	A : 600	605	610	AlInGaP		90	150	200					
	YG:562	567	570			30	40	50					
598-8540-207F	Y : 585	590	595	AlInGaP		90	150	200					
	YG:562	567	570			30	40	50					
598-8550-207F	Y : 587	590	597	AlInGaP		90	150	200	2	2.4			
	G : 515	525	530	InGaN		260	560	900	3.2	3.4			
598-8560-207F	Y : 587	590	597	AlInGaP		90	150	200	2.2	2.4			
	R : 630	635	640			40	65	90	2.2	2.4			



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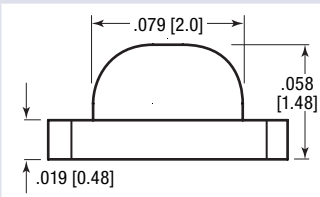

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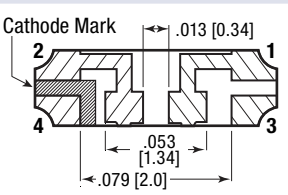

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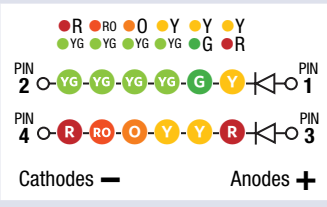
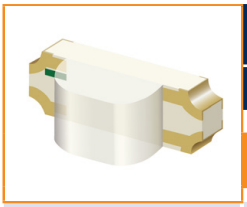
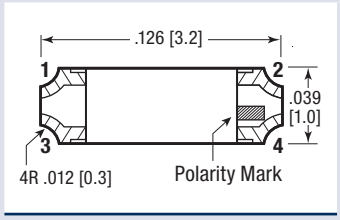


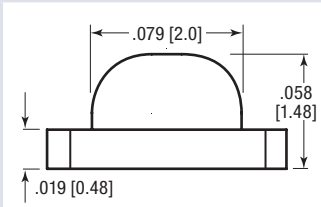
Schematic



	Color : Wavelength (nm)			Material	Test Current (mA)	Intensity (mcd)			Typ Fwd Voltage (V)		Viewing Angle	Operating Temp (°C)	Storage Temp (°C)
		Min	Typ	Max			Min	Typ	Max	Typ	Max			
1208 Right Angle ▶ 3.2 x 1.5 x 1.0 mm / *TriColor*														
598-8810-307F	R : 630	635	640	AlInGaP	20		35		100			140	-40 to +100	-40 to +100
	G : 517	521	525	InGaN			200		560					
	B :	470		InGaN			60		200					
598-8820-307F	O : 620	625	630	AlInGaP			70		200					
	G : 517	521	525	InGaN			200		560					
	B :	470		InGaN			60		200					
598-8840-307F	Y : 587	592	597	AlInGaP								160		
	G : 515	522	530	InGaN										
	B :	470		InGaN										



Front PC BOARD



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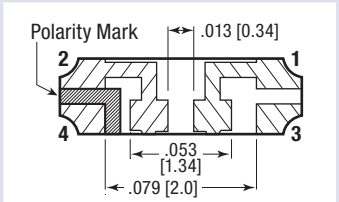

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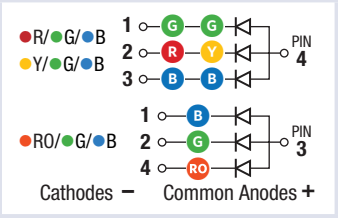
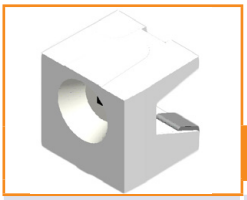
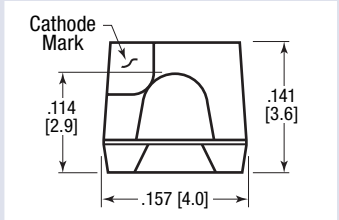


Schematic



1616 Package Right Angle ▶ 4.0 x 4.0 x 3.6 mm / *Single Color Low Current*													
597-2001-213F	R : 624	630	636	AlInGaP	2	20	40	60	1.8		120	-40 to +100	-40 to +100
597-2301-213F	G : 566	570	575			10	42	50	1.8				
597-2401-213F	Y : 580	587	595			25	70	115	1.8				
1616 Right Angle ▶ 4.0 x 4.0 x 3.6 mm / *Single Color*													
597-2201-815F	Y : 580	587	595	AlInGaP	30	280	—	900	2.1		120	-40 to +100	-40 to +100
597-2301-824F	G : 519		537		20	45	—	900	2				
597-2321-816F	G : 566	528	575	InGaN	20	355	—	112	3.5				
597-2601-817F	B : 464	470	476		2	90	—	224	3.6				
597-2901-822F	W : X=0.330/Y=0.330				20	355	—	710	3.6				



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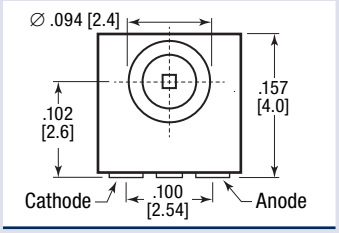
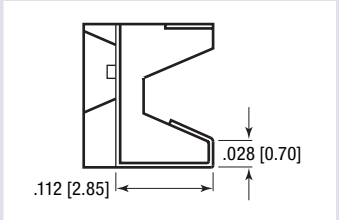
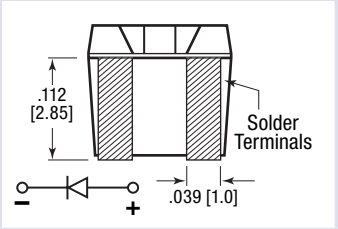


Front PC BOARD



Side PC BOARD



Bottom and Schematic

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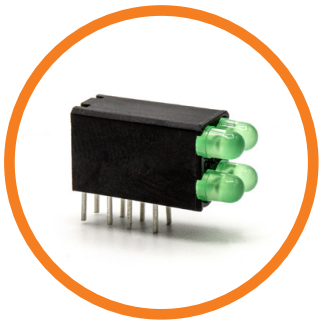
Board Mount Indication

Prism® SMD



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