



THE DATASHEET OF
GA15Y_R2_00001



GA15Y

SURFACE MOUNT RECTIFIER

Voltage

1600 V

Current

1.5 A

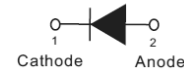
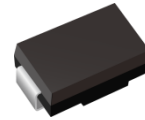
Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Plastic package has underwriters laboratory flammability classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SMA Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0024 ounces, 0.068 grams

SMA



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1600	V
Maximum Rms Voltage	V _{RMS}	1130	V
Maximum Dc Blocking Voltage	V _{DC}	1600	V
Maximum Average Forward Current	I _{F(AV)}	1.5	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	30	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V	C _J	8	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	150	°C/W
	R _{θJC} ⁽²⁾	20	
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 0.75\text{ A}, T_J = 25^\circ\text{C}$	-	0.93	-	V
		$I_F = 1.5\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.15	
		$I_F = 0.75\text{ A}, T_J = 125^\circ\text{C}$	-	0.82	-	
		$I_F = 1.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.91	-	
Reverse Current	I_R	$V_R = V_{RRM}, T_J = 25^\circ\text{C}$	-	-	1	uA
		$V_R = V_{RRM}, T_J = 125^\circ\text{C}$	-	14.1	-	

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, mini pad.
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

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TYPICAL CHARACTERISTIC CURVES

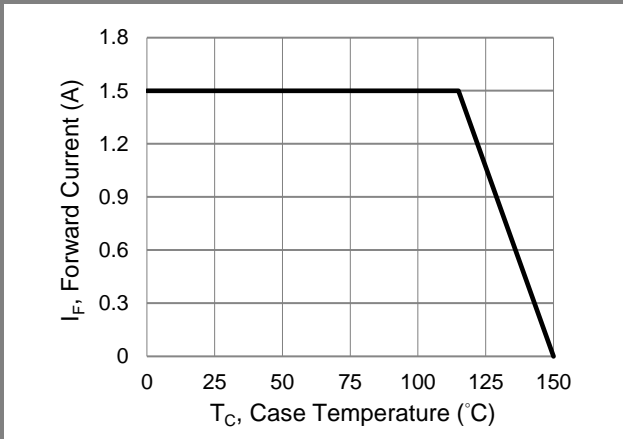


Fig.1 Forward Current Derating Curve

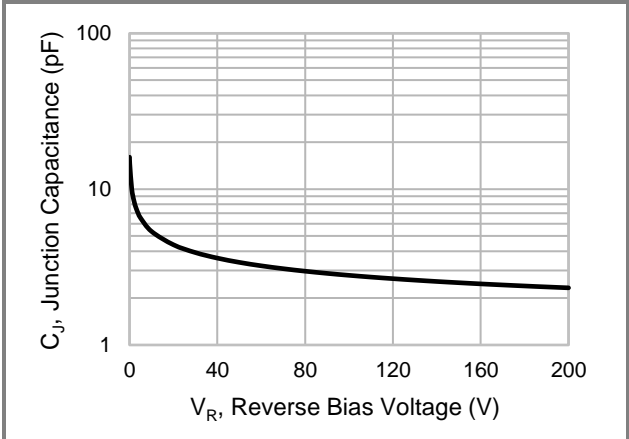


Fig.2 Typical Junction Capacitance

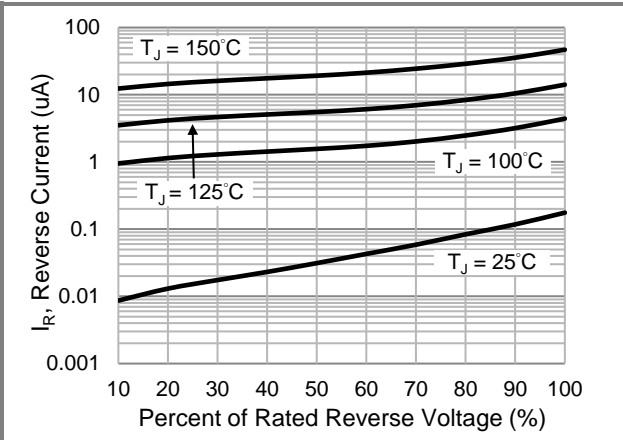


Fig.3 Typical Reverse Characteristics

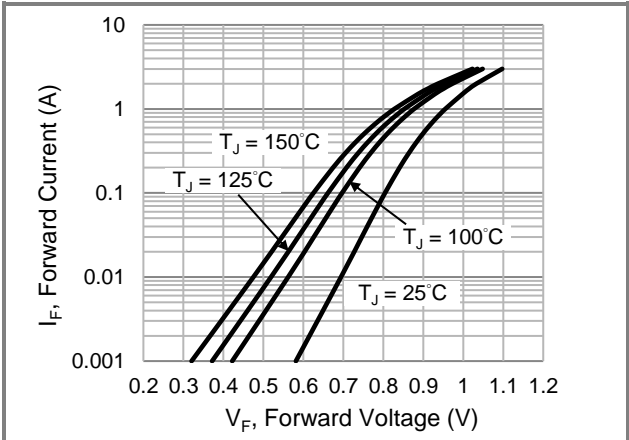


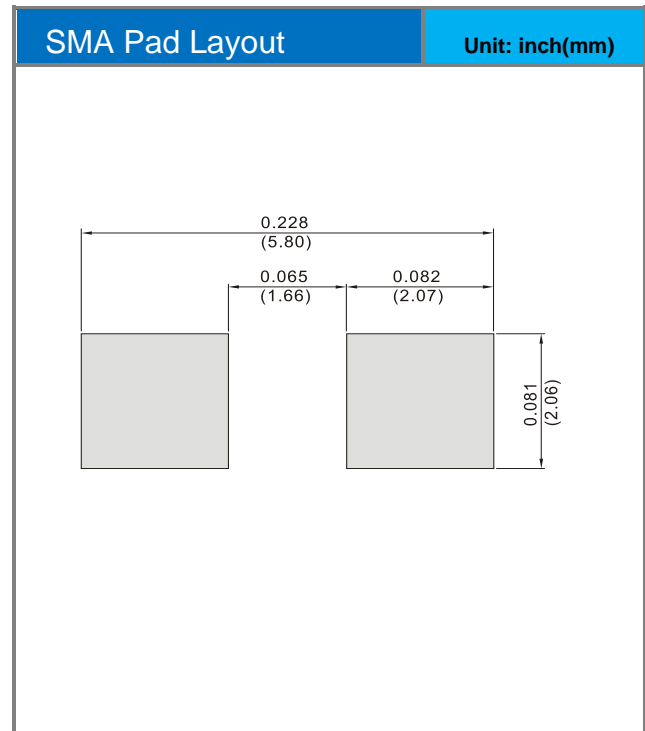
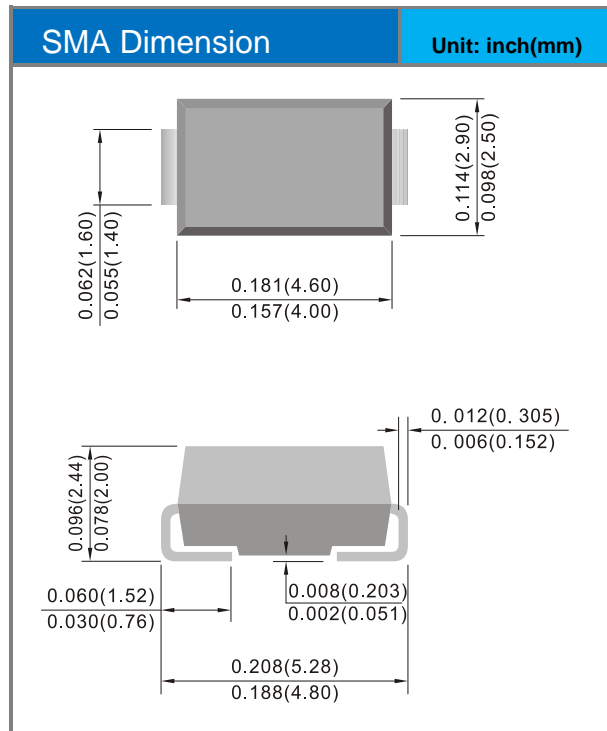
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GA15Y	SMA	7.5K pcs / 13" reel	GA15Y

Packaging Information & Mounting Pad Layout




GA15Y

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