



**THE DATASHEET OF
ESS-JC190TGJRKT**





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DATA SHEET

ESL NO.. : ESS-JC190TGJRKT

CUSNO.. :

REV : A / 0

Producer: Eden

Auditor: _____

Approver: Jack

CUSTOMER'S APPROVAL : _____

DCC : _____

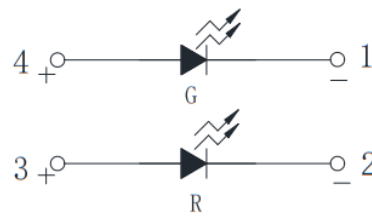
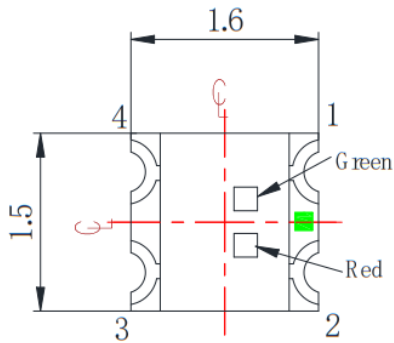


1.6×1.5×0.5mm SMD LED LED

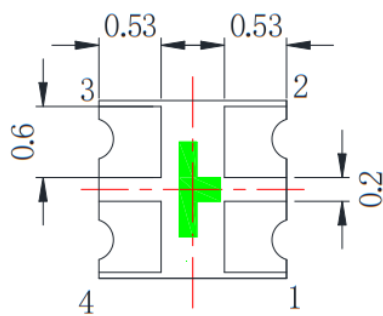
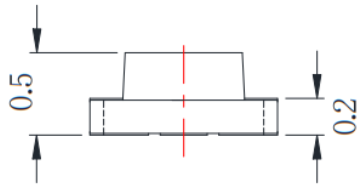
ESS-JC190TGJRKT

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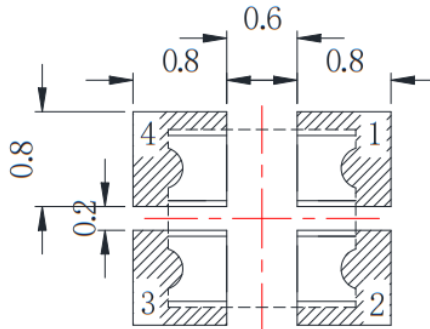
PACKAGE DIMENSIONS



Polarity



Recommended Solder Pad





1.6×1.5×0.5mm SMD LED LED

ESS-JC190TGJRKT

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Feature:

- * High Luminous Intensity
- * Low Power Dissipation
- * good Reliability
- * Long Life

Applications:

- * household appliance
- * dashboard
- * communication equipmen

CHIP MATERIALS :

- * Dice Material: GaP/GaN
- * Lens Color: Water Clear
- * Light Color: Red/Green

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Symbol	DESCRIPTION	Rated		Unit
		Red	Green	
Topr	Operating Temperature Range	-30°C ~ +85°C		
Tstg	Storage Temperature Range	-40°C ~ +100°C		
VR	Reverse Voltage Per Chip	5	5	V
PD	Power Dissipation Per Chip	60	80	mW
IF	Average Forward Current Per Chip	100	100	mA
IFp	Peak Forward Current Per Chip	20	20	mA

ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

Parameter	Symbol	Condition	Device	MIN.	TYP	MAX	UNIT
Reverse Current	IR	VR=5V				5	μA
Forward Voltage	VF	IF=20mA	Red	1.8	2.0	2.2	V
			G	2.8	3.0	3.2	
PeakWavelength	λ P		Red		625		nm
			G		525		
Spectrum Radiation Bandwidth	Δ λ				20		nm
Luminous Intensity	IV		Red		100		mcd
			G		200		
View Angle	2θ1/2			R/G		120	



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Typical Electro-Optical Characteristics Curves

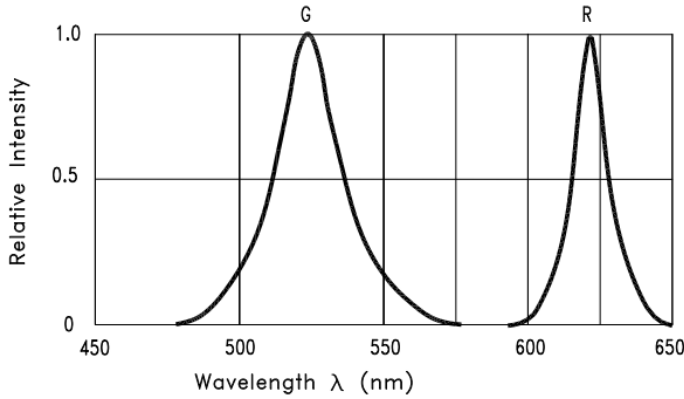


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

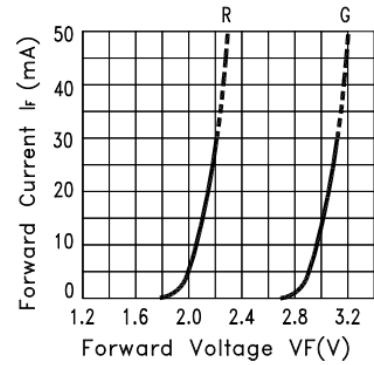


Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

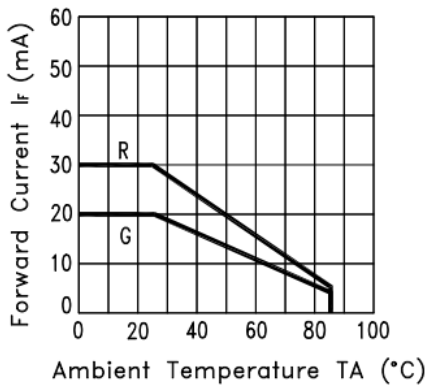


Fig.3 FORWARD CURRENT DERATING CURVE

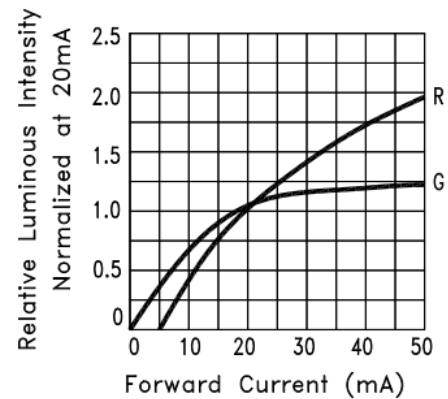


Fig.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

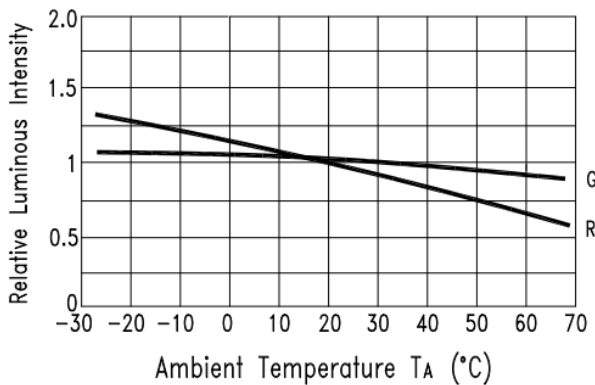


Fig.5 Luminous Intensity vs. Ambient Temperature

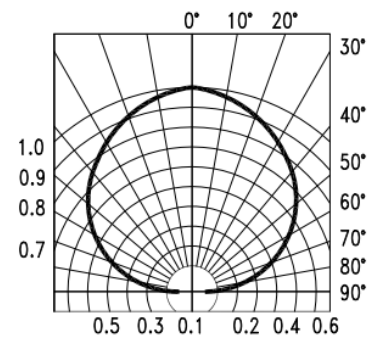


Fig.6 SPATIAL DISTRIBUTION



1.6×1.5×0.5mm SMD LED LED

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Packaging:

Moisture Proof and Anti-Electrostatic Foil Bag

Cardboard Box



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