Rectangular LED Super Red, 2mm x 3mm



RoHS Compliant

Specifications

Dice Material : AlInGaP
Emitted colour : Super Red
Lens colour : Red Diffused
Peak wavelength : 653nm
Viewing angle : 100°
Luminous intensity (IV) : 70mcd

Electrical / Optical Ch				1		I
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	IV	50	70	100	mcd	
Viewing Angle	201/2		100		deg	
Peak Emission Wavelength	λр		653		nm	IF = 20mA
Dominant Wavelength	λD	632	637	643	nm] IF - 20IIIA
Spectral Line Half-Width	Δλ		19		nm	
Forward Voltage	VF	1.7	1.9	2.4	V	
Reverse Current	lr	-	-	10	uA	VR=5V
▲ Luminous intensity (IV) ±10	%, Forward Vo	Itage (VF) ±0.1	V, Wavelength	(λd) ±0.5nm		

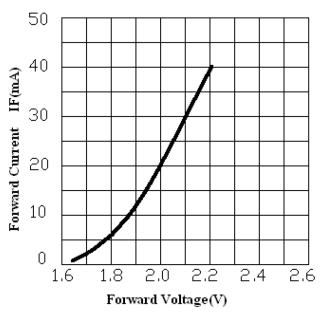
Absolute Maximum Ratings: (Ta = 25°C)							
Parameter	Symbol	Rating	Unit				
Power Dissipation	Pd	85	mW				
Peak Forward Current (Duty 1/10 @ 1KHZ)	IF (Peak)	100	mA				
Recommended Operating Current	IF (Rec)	30	mA				
Electrostatic Discharge	ESDнвм	2000	V				
Operating Temperature Range	Topr	-40 to +85	°C				
Storage Temperature Range	Тѕтс	-40 to +100	°C				
Lead Soldering Temperature Range (1.6 mm (1/16 inch) from body)	Reflow Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.						

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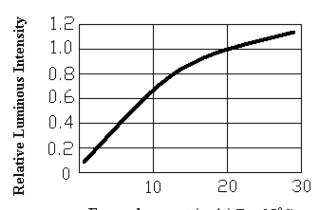


Typical Electro-Optical Characteristics Curves

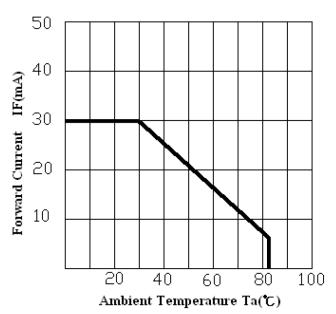
Ultra Red(AlInGaP \(\lambda\)P=653nm)



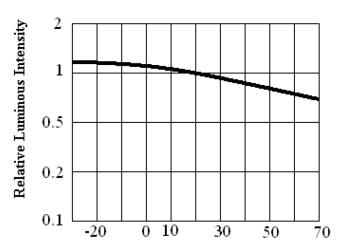
Forward Current vs. Forward Voltage



Forward current (mA) Ta=25°C Luminous Intensity vs. Forward current



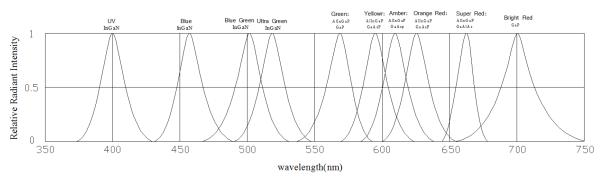
Forward Current Derating Curve



Ambient Temperature Ta= °C Luminous Intensity vs. Ambient Temperature

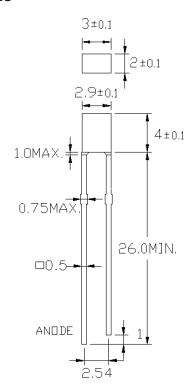
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Relative Intensity VS. wavelength

Dimensions



Dimensions : Millimetres

Part Number Table

Description	Part Number
Rectangular LED, Super Red, 653nm, 100°, 70mcd, Through hole	MP007959

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