Round LED with Housing Super Red, 4.7mm



RoHS Compliant

Specifications

Dice Material : AlInGaP
Emitted colour : Super Red
Lens colour : Red Diffused
Peak wavelength : 650nm
Viewing angle : 45°
Luminous intensity (IV) : 25mcd

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	IV	20	25	35	mcd	
Viewing Angle	201/2		45		deg	IF = 20mA
Peak Emission Wavelength	λр		650		nm	
Dominant Wavelength	λD	635	640	645	nm	
Spectral Line Half-Width	Δλ		20		nm	
Forward Voltage	VF	1.8	1.9	2.2	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)	25	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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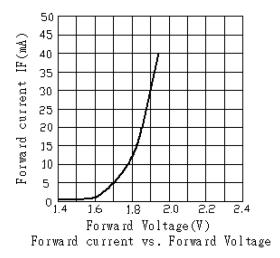


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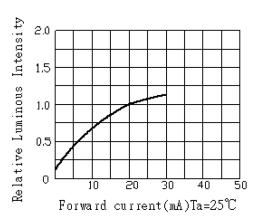


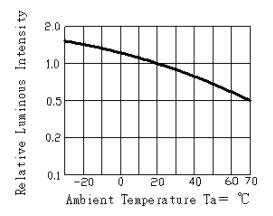
Typical Electro-Optical Characteristics Curves

Super Red (AlInGaP λd=640nm)



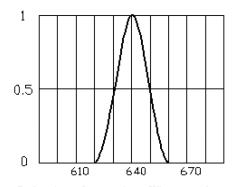
Ambient Temperature Ta= °C
Forward current Derating curve





Luminous Intensity vs. Forward current

Luminous Intensity vs. Ambient Temperature



Relative Intensity VS. wavelength

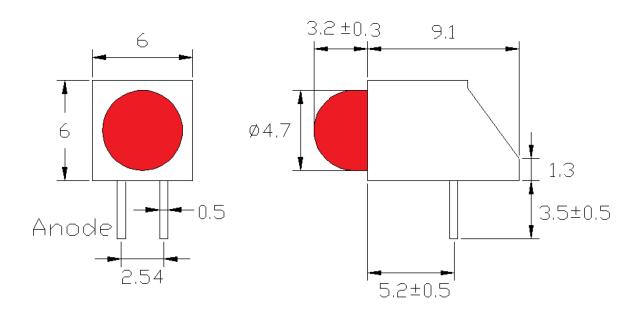
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Dimensions



Dimensions: Millimetres

Part Number Table

Description	Part Number
Round LED with Housing, Super Red, 4.7mm, 650nm, 45°, 25mcd, Through hole	MP008017

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