# Round LED Super Red, 3mm x 5.3mm



RoHS Compliant

### **Specifications**

Dice Material : AlInGaP
Emitted colour : Super Red
Lens colour : Red Transparent

Peak wavelength : 650nm Viewing angle : 30° Luminous intensity (IV) : 80mcd

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	IV	60	18	100	mcd	
Viewing Angle	201/2		30		deg	]
Peak Emission Wavelength	λр		650		nm	IF = 20mA
Dominant Wavelength	λD	635	640	645	nm	] IF - 20IIIA
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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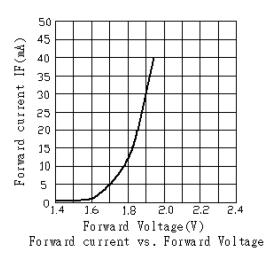


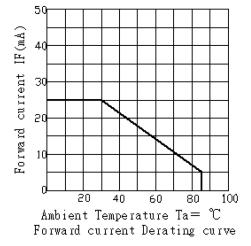
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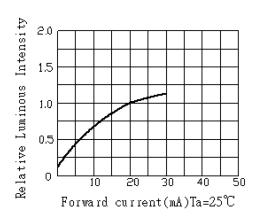


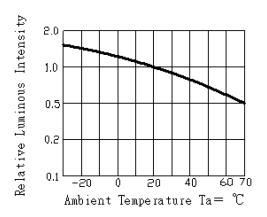
### **Typical Electro-Optical Characteristics Curves**

## Super Red (AlInGaP λd=640nm)



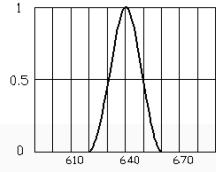






Luminous Intensity vs.Forward current

Luminous Intensity vs. Ambient Temperature



Relative Intensity VS. wavelength

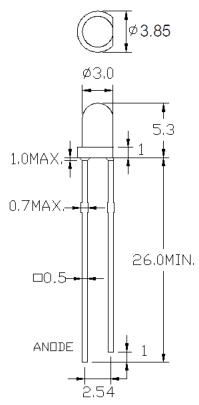
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# Round LED Super Red, 3mm x 5.3mm



#### **Dimensions**



Dimensions: Millimetres

### **Part Number Table**

Description	Part Number
Round LED, Super Red, 650nm, 30°, 80mcd, Through hole	MP008010

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