## **Square LED** Super Red, 5mm x 5mm x 7.1mm Multicomp PRO



**RoHS Compliant** 

### **Specifications**

Dice Material : AllnGaP Emitted colour : Super Red Lens colour : Red Diffused Peak wavelength : 650nm Viewing angle : 120° Luminous intensity (IV) : 18mcd

Electrical / Optical Characterisitics at Ta = 25°C							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Luminous Intensity	IV	12	18	30	mcd		
Viewing Angle	201/2		120		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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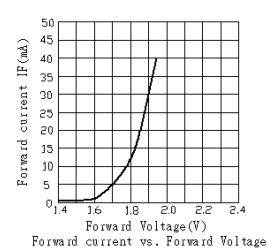


## **Square LED** Super Red, 5mm x 5mm x 7.1mm Multicomp PRO

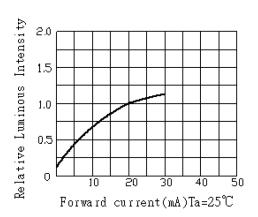


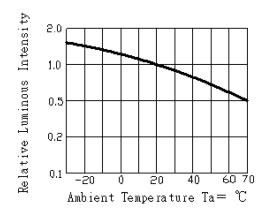
### **Typical Electro-Optical Characteristics Curves**

### Super Red (AlInGaP λd=640nm)



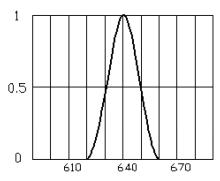
Forward current IF(mA) 100 60 80 Ambient Temperature Ta= ℃ Forward current Derating curve





Luminous Intensity vs. Forward current

Luminous Intensity vs. Ambient Temperature



Relative Intensity VS. wavelength

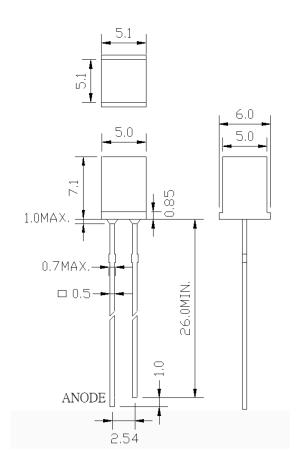
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# **Square LED** Super Red, 5mm x 5mm x 7.1mm Multicomp PRO



#### **Dimensions**



**Dimensions: Millimetres** 

#### **Part Number Table**

Description	Part Number	
Square LED,Super Red, 650nm, 120°, 18mcd	MP008016	

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