



# **Specifications**

Dice Material : AllnGaP Peak Wave Length : 655nm **Emitted Colour** : Ultra Red Viewing Angle (deg) : 20

Lens Colour : Water Clear IV(mcd) : 6000

# Electrical / Optical Characteristics at T<sub>A</sub> = 25°C

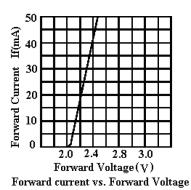
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test
Luminous Intensity	IV	5000	6000	8500	mcd	
Viewing Angle	201/2	-	20	-	deg	IF = 20mA
Peak Emission Wavelength	λр	650	655	660	nm	
Dominant Wavelength	λD	-	645	-	nm	
Spectral Line Half-Width	Δλ	-	20	-	nm	
Forward Voltage	VF	2	2.2	2.4	V	
Power Dissipation	Pd	-	-	85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	IF (Peak)	-	-	100	mA	
Recommended Operating Current	IF (Rec)	-	20	-	mA	

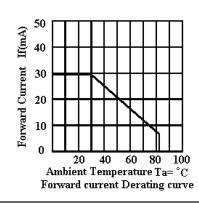
#### **Absolute Maximum Rating** $T_A = 25^{\circ}C$

Reverse Voltage	5 Volt		
Reverse Current	10μA (VR=5V)		
Operating Temperature Range	-40°C to +85°C		
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature Range (1.6mm (1/16 inch) from body)	260°C For 5 Seconds		

### Typical Electro-Optical Characteristics Curves

Ultra Red (AlGalnP) λP=660nm

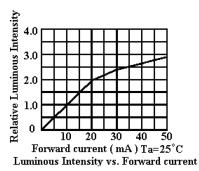


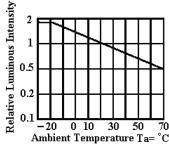


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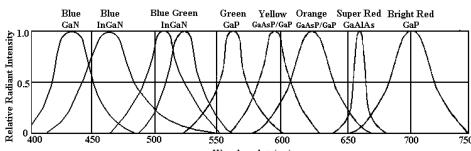






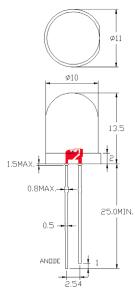


Luminous Intensity vs. Ambient Temperature



Wavelength 入(nm) RELATIVE INTENSITY VS. WAVELENGTH

#### **Dimensions**



**Dimensions: Millimetres** Tolerance: ±0.25mm

### **Part Number Table**

Description	Part Number		
LED, 10mm, 20°, Super-Red	MCL103RHC		

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