

5mm Round Standard LED with 12V Resistor Red

multicomp PRO

**RoHS
Compliant**



Feature

- High intensity
- Standard T- 1 3/4 diameter package
- General purpose LED
- Reliable and rugged
- With resistor built in

Specification

Lead spacing is measured where the leads emerge from the package

Source Colour	Chip Material	Lens Colour
Red	AlGaAs	Red Diffused

Absolute Maximum Rating at T_A = 25°C

Parameter	Max.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature [4mm (0.157) From Body]	260°C for 5 seconds	

Electrical Optical Characteristics at T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v		30		mcd	I _f = 20mA (Note 1)
Viewing Angle	2θ _{1/2}		60		Deg.	Note 2
Peak Emission Wavelength	λ _p		660		nm	I _f = 20mA
Dominant Wavelength	λ _d		645		nm	I _f = 20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I _f = 20mA
Forward Voltage	V _f		2	2.5	V	I _f = 20mA
Reverse Current	I _R	-	-	100	μA	V _R = 5V

Notes:

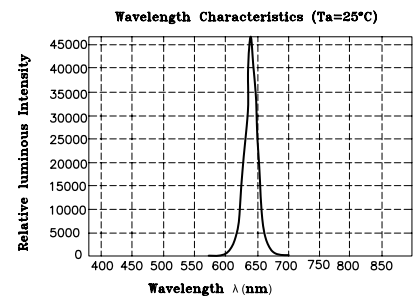
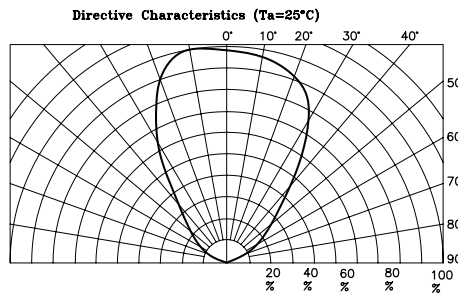
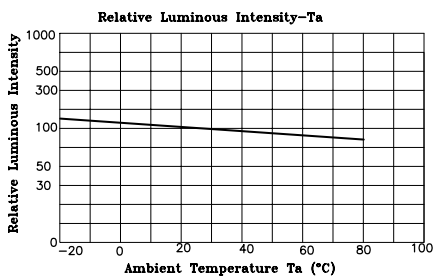
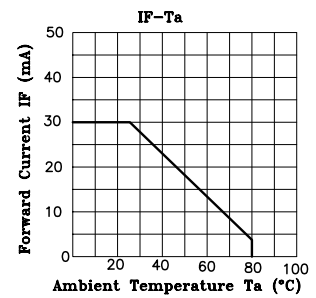
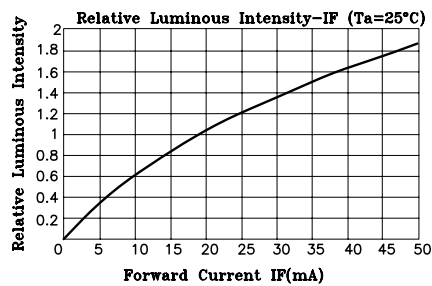
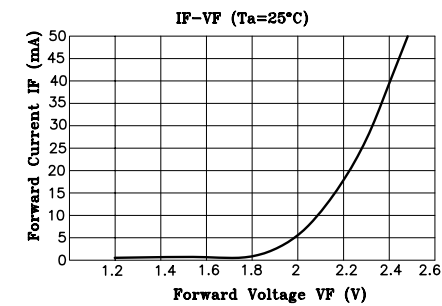
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity single wavelength which defines the colour of the device.

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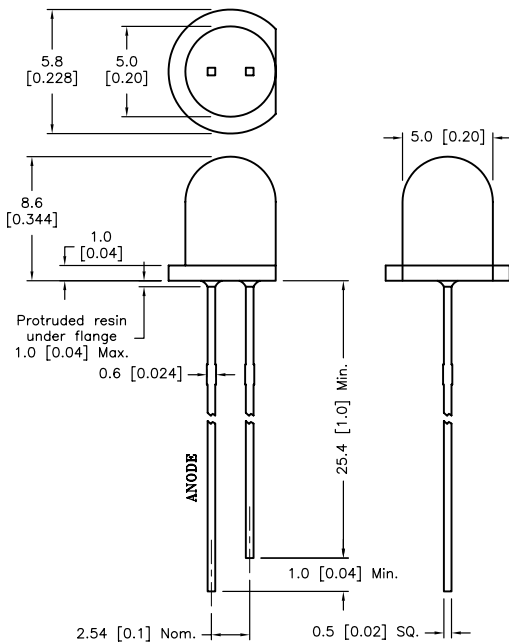
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Diagram



Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
5mm Round Standard LED with 12V Resistor, Red	MC20429

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