

5mm Round Lens, Super Bright LED Cyan Emitting Colour

multicomp PRO

**RoHS
Compliant**



Feature

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

Specification

Lead spacing is measured where the leads emerge from the package

Source Colour	Chip Material	Lens Colour
Cyan	InGaN/SiC	Water Clear

Absolute Maximum Rating at $T_A = 25^\circ\text{C}$

Parameter	Max.	Unit
Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	$\text{mA}/^\circ\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	-25°C to $+80^\circ\text{C}$	
Storage Temperature Range	-40°C to $+100^\circ\text{C}$	
Lead Soldering Temperature [4mm (0.157) From Body]	260°C for 5 seconds	

Electrical Optical Characteristics at $T_A=25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v		5,500		mcd	$I_f = 20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$		10		Deg.	Note 2
Peak Emission Wavelength	λ_p		505		nm	$I_f = 20\text{mA}$
Dominant Wavelength	λ_d		509		nm	$I_f = 20\text{mA}$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$		20		nm	$I_f = 20\text{mA}$
Forward Voltage	V_f		3.5	4	V	$I_f = 20\text{mA}$
Reverse Current	I_R	-	-	50	μA	$V_R = 5\text{V}$

Notes:

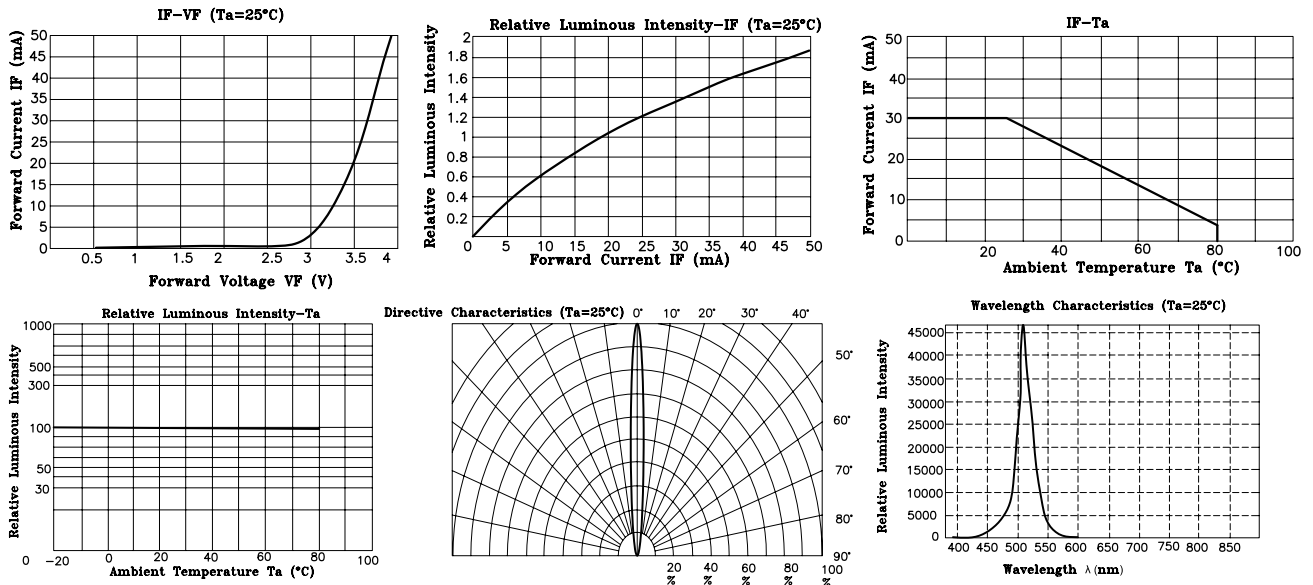
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity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

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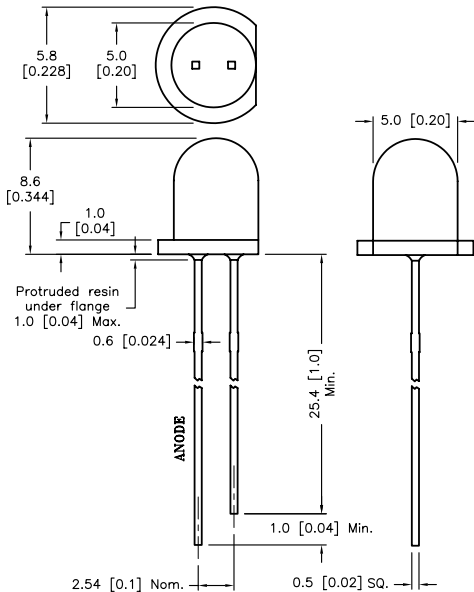
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Diagram



Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
5mm Round Lens, Super Bright LED, Cyan Emitting Colour	MC20363

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