

3mm Round Lens, Bi-color LED Red/Yellow 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
Red	GaAsP	White Diffused
Yellow		

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

Parameter	Max.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	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	Colour	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	Red	30	-	mcd	$I_f = 20\text{mA}$ (Note 1)
		Yellow	30			
Viewing Angle	$2\theta_{1/2}$	-	30	-	Deg.	Note 2
Dominant Wavelength	λ_d	Red	640	648	nm	$I_f = 20\text{mA}$ (Note 3)
		Yellow	585	590		
Spectral Line Half-Width	$\Delta\lambda$	-	20	25	nm	$I_f = 20\text{mA}$
Forward Voltage	V_f	Red	1.8	2.4	V	$I_f = 20\text{mA}$
		Yellow	1.9	2.5		
Reverse Current	I_R	-	-	100	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.

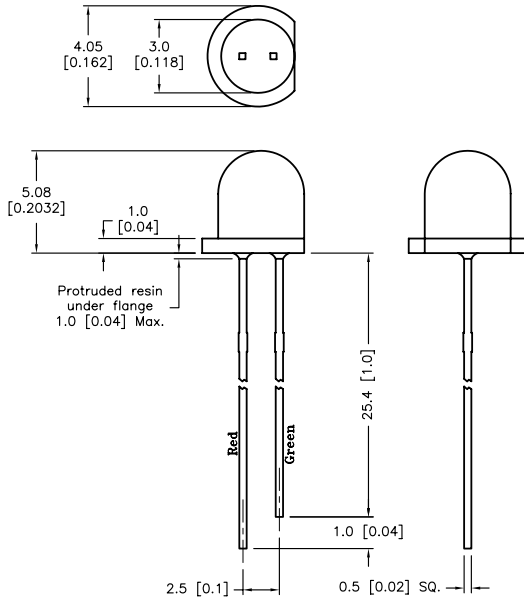
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Diagram



Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
3mm Round Lens, Bi-color LED, Red/Yellow Emitting Colour	MC20394

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