

Round LED

Orange, 5mm



Specifications:

Dice material	: GaAsP on GaP
Emitted colour	: Orange
Lens colour	: Orange Diffused
Peak wavelength	: 635nm
Viewing angle	: 45°
Luminous intensity (IV)	: 16mcd

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Reverse Voltage	5V
Reverse Current	10 μ A ($V_R = 5V$)
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

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

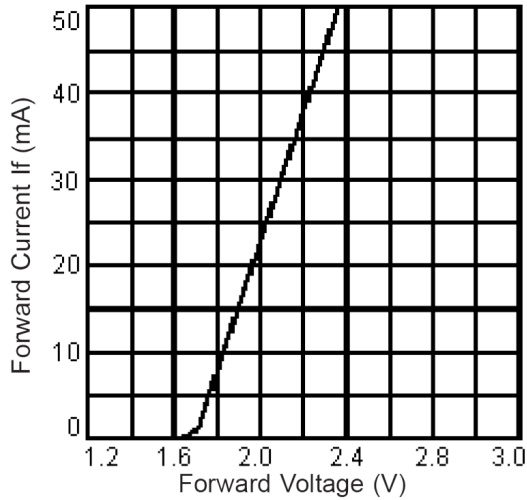
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	9	16	25	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	45	-	degrees	
Peak Emission Wavelength	λ_P	-	635	-	nm	-
Dominant Wavelength	λ_D	-	625	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	45	-		-
Forward Voltage	VF	1.6	2	2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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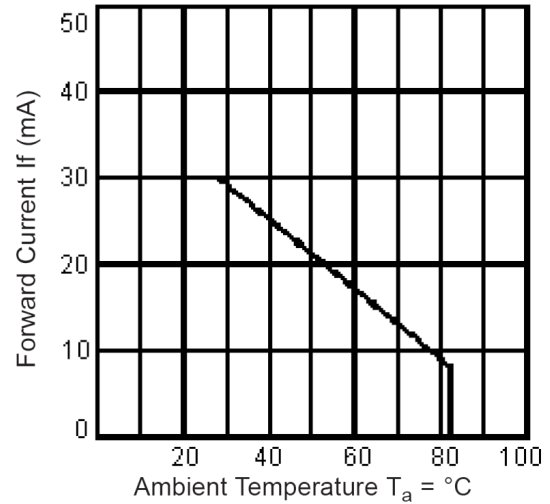
Orange, 5mm



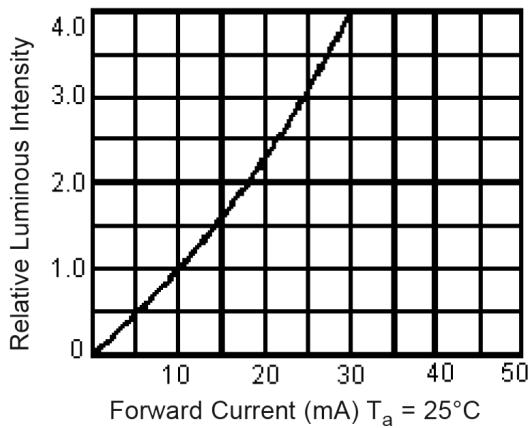
Yellow (GaAsP/GaP $\lambda_P = 587\text{nm}$)



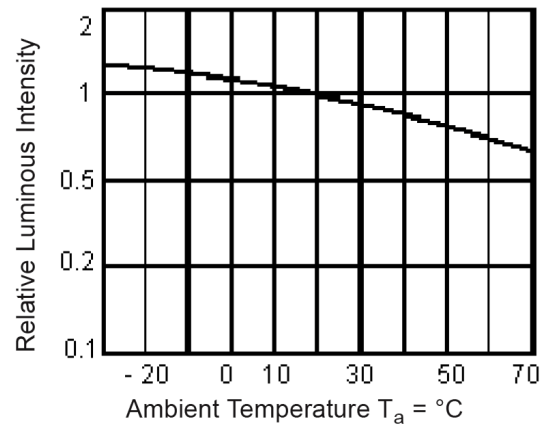
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current

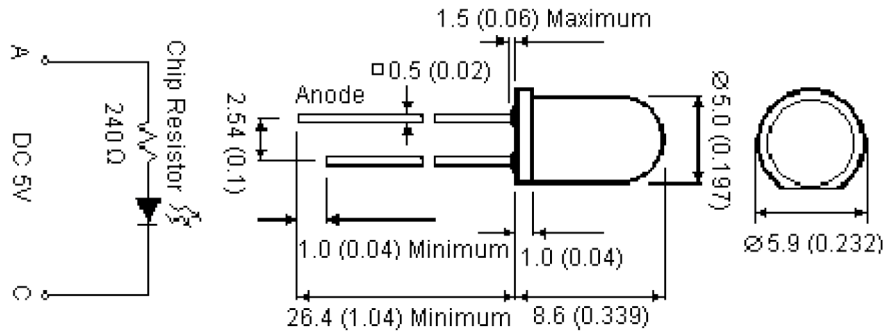
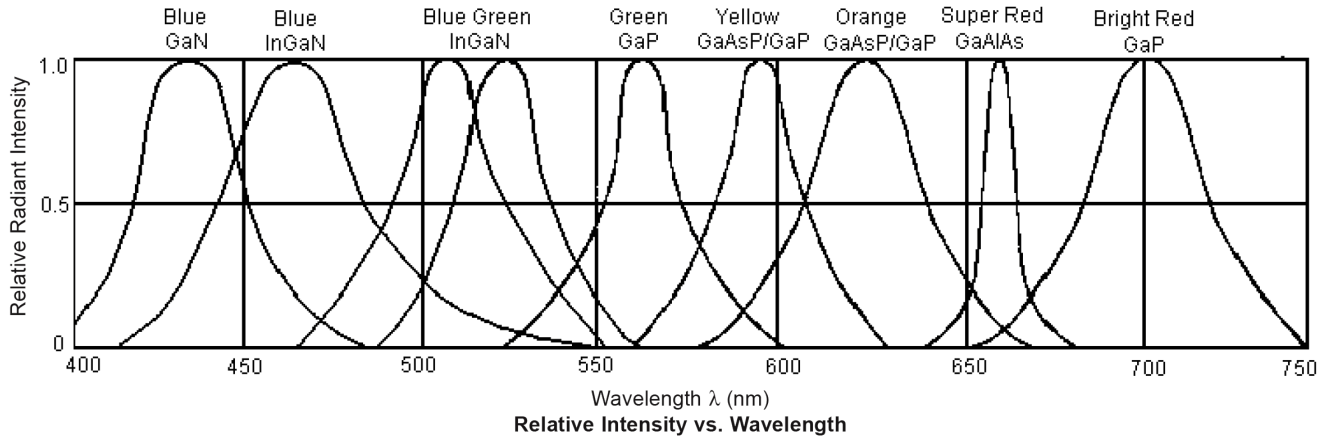


Luminous Intensity vs. Ambient Temperature



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Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
Round With Chip Resistor Built in LED, 5mm, 5V, 36°, Orange	MCL053HAD/5

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