

# Round LED

## Bright Red, 5mm



### Specifications:

Dice material	: GaP
Emitted colour	: Red
Lens colour	: Red Diffused
Peak wavelength	: 697nm
Viewing angle	: 45°
Luminous intensity (IV)	: 2.8mcd

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

Reverse Voltage	5V
Reverse Current	10 $\mu$ 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 $T_a = 25^\circ\text{C}$

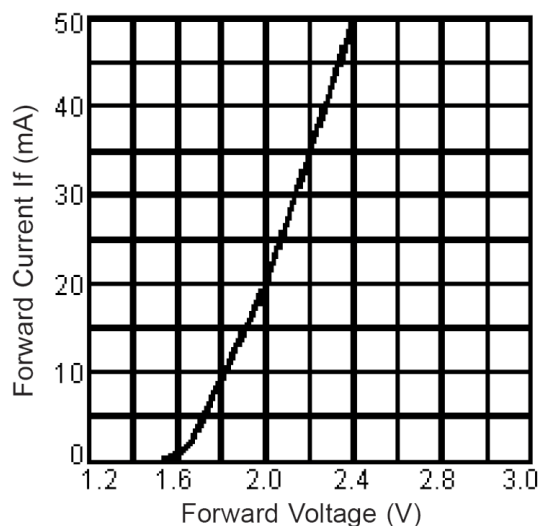
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.3	2.8	4.2	mcd	IF = 20mA
Viewing Angle	2 $\theta$ 1/2	-	45	-	degrees	
Peak Emission Wavelength	$\lambda_P$	-	697	-	nm	-
Dominant Wavelength	$\lambda_D$	-	650	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	90	-		-
Forward Voltage	VF	1.7	2.1	2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	45	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	50	-	-
Recommended Operating Current	IF (Rec)	-	10	-	mA	-

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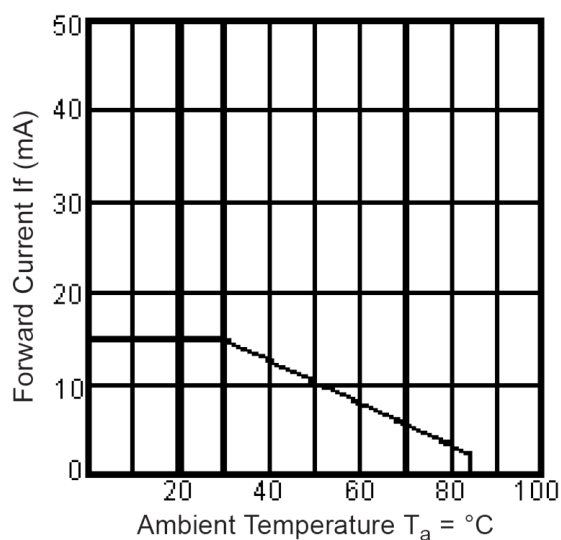
## Bright Red, 5mm



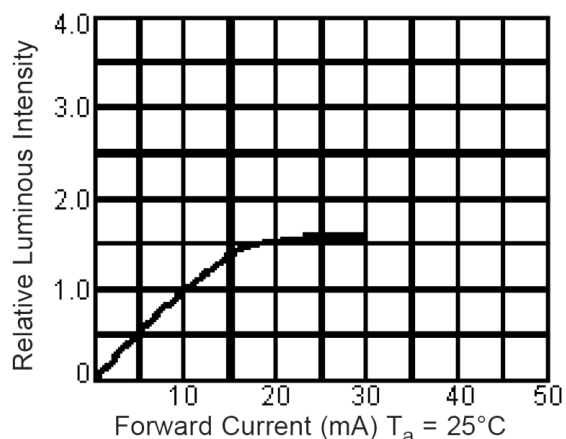
Bright Red(GaP  $\lambda_P = 697\text{nm}$ )



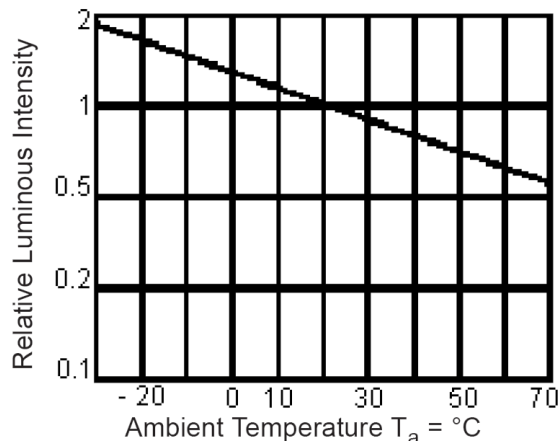
Forward Current vs. Forward Voltage



Forward Current Derating Curve



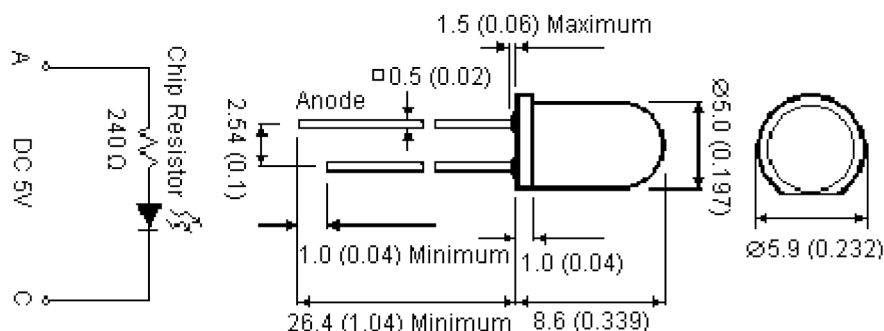
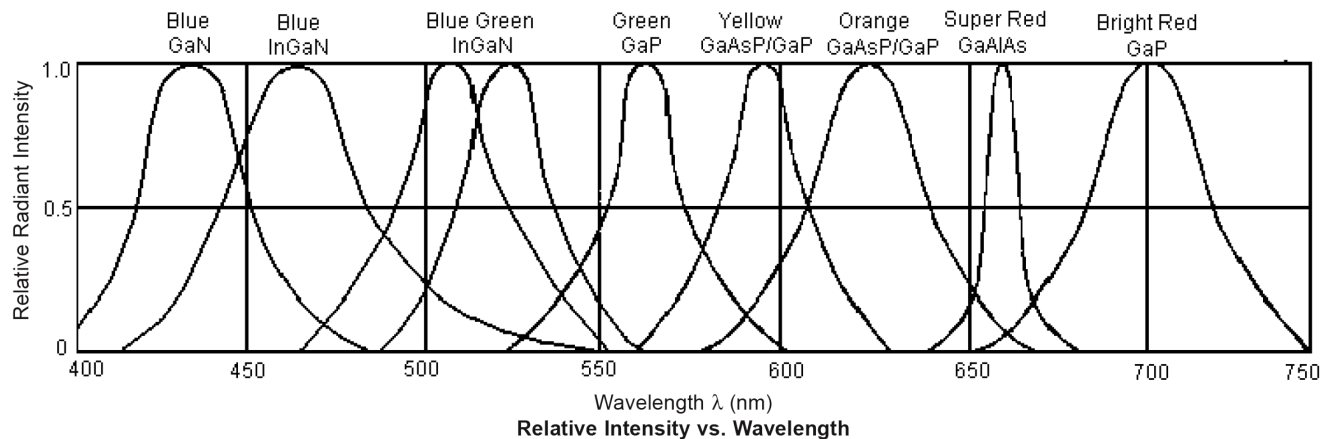
Luminous Intensity vs. Forward Current



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°, BRT-Red	MCL053HPD/5

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