

Rectangular LED

HE Red, 2mm × 5mm

multicomp^{PRO}

RoHS
Compliant



Specifications:

Dice material	: GaAsP on GaP
Emitted colour	: Hi-eff Red
Lens colour	: Red Diffused
Peak wavelength	: 635nm
Viewing angle	: 120°
Luminous intensity (IV)	: 3.8mcd

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 $T_a = 25^\circ\text{C}$

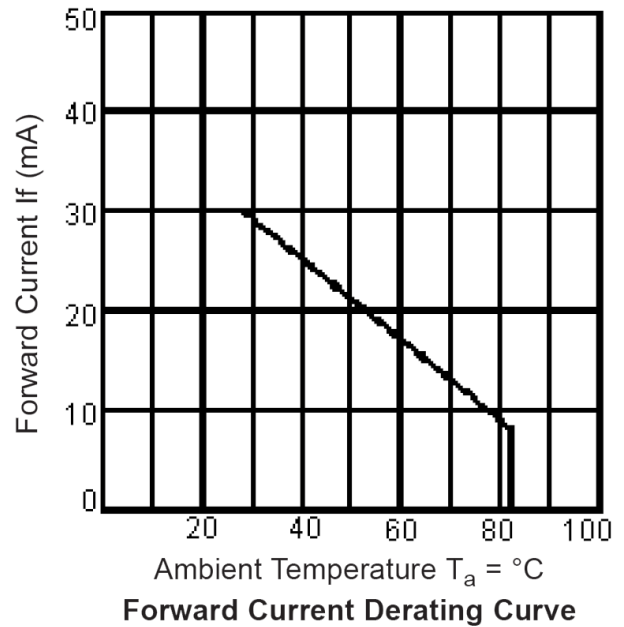
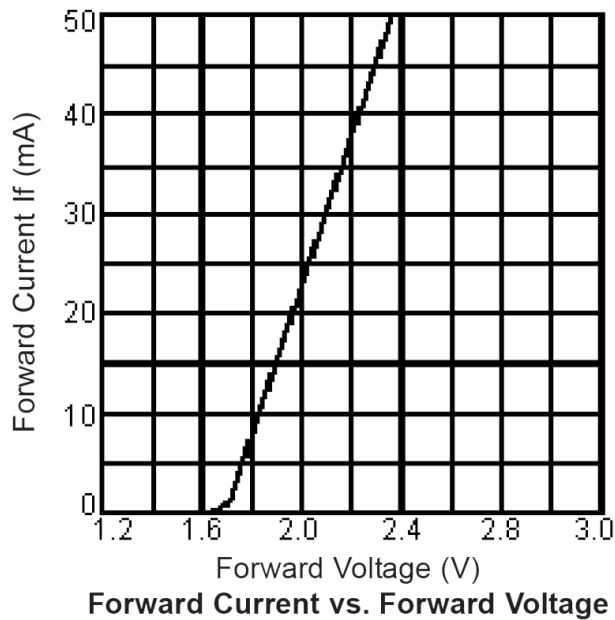
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.4	3.8	4.2	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	120	-	degrees	
Peak Emission Wavelength	λ_P	-	635	-	nm	-
Dominant Wavelength	λ_D	-	625	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	40	-		-
Forward Voltage	VF	1.6	2	2.6	V	IF = 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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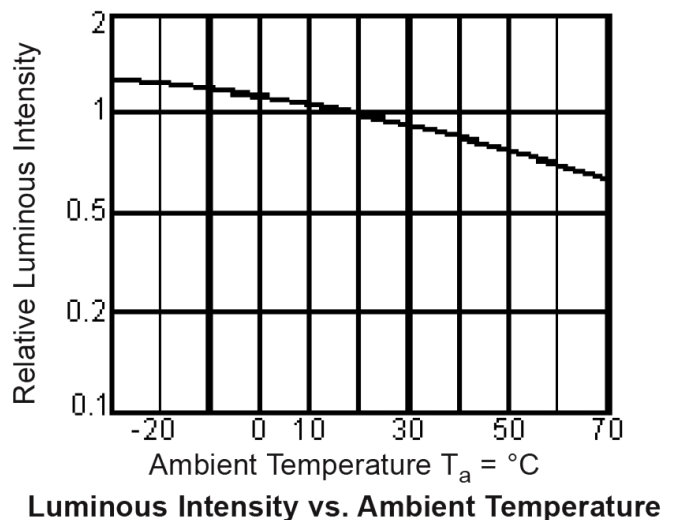
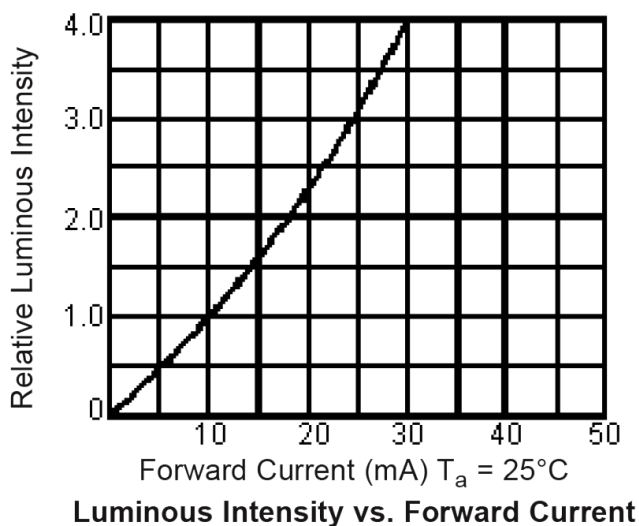
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Bright Red (GaAsP on GaP $\lambda_P = 635\text{nm}$)



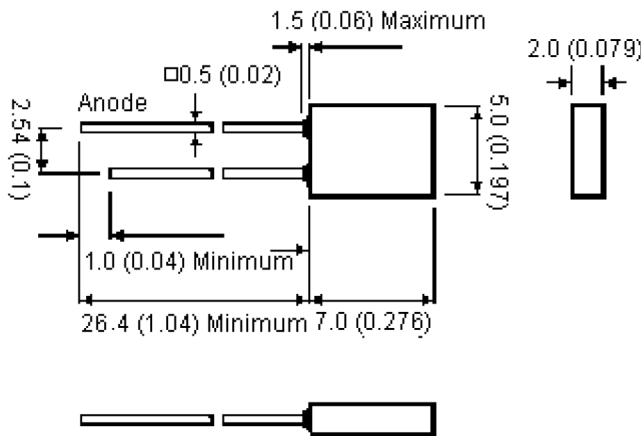
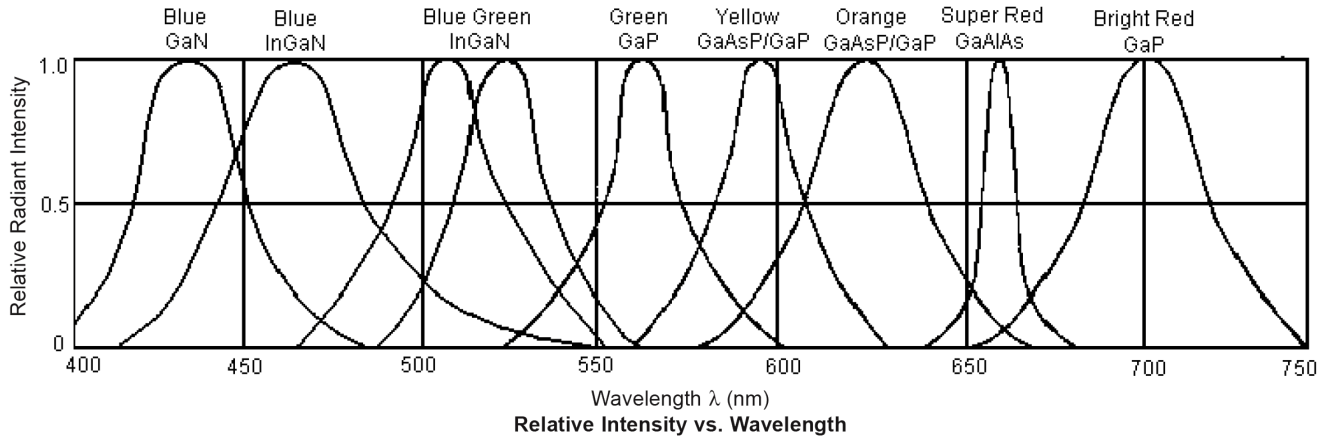
Bright Red (GaAsP on GaP $\lambda_P = 635\text{nm}$)



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Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
LED, 2mm × 5mm, 120°, HE-Red	MCL453MD

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