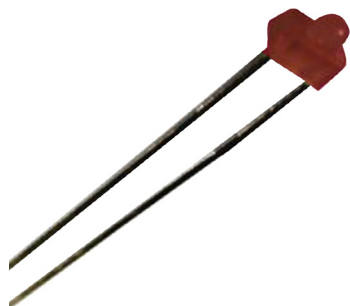


Tower LED

HE-Red, 1.8mm



Specifications:

Dice material	: GaAsP on GaP
Emitted colour	: Hi-eff Red
Lens colour	: Red Diffused
Peak wavelength	: 635nm
Viewing angle	: 70°
Luminous intensity (IV)	: 6.5mcd

Absolute Maximum Ratings (T_a = 25°C)

Reverse Voltage	5V
Reverse Current	10µA (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°C

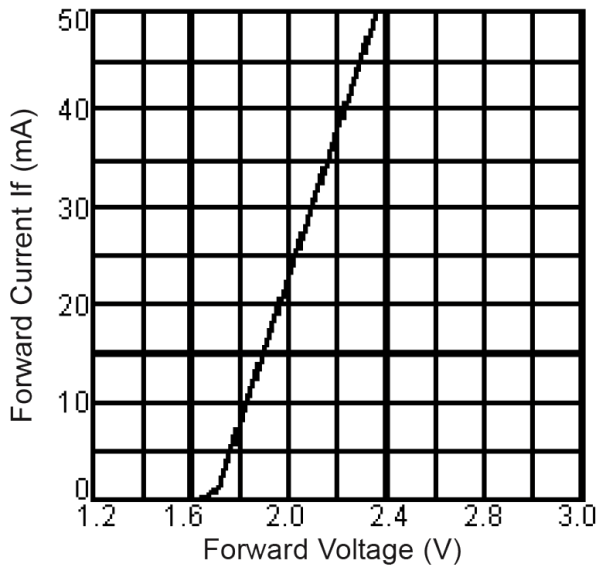
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	3.8	6.5	10	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	70	-	degrees	
Peak Emission Wavelength	λP	-	635	-	nm	-
Dominant Wavelength	λD	-	627	-		-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	1.6	2	2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

Tower LED

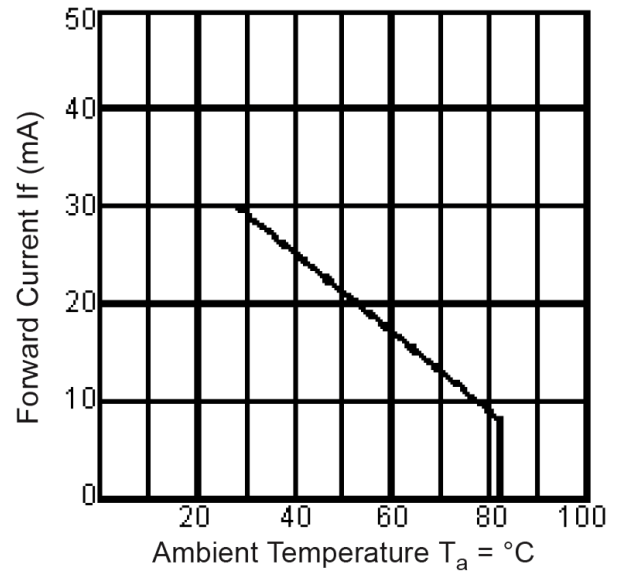
HE-Red, 1.8mm



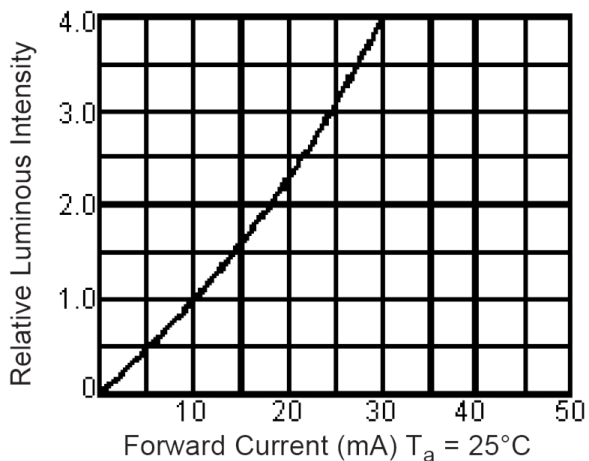
Bright Red (GaAsP on GaP $\lambda_P = 635\text{nm}$)



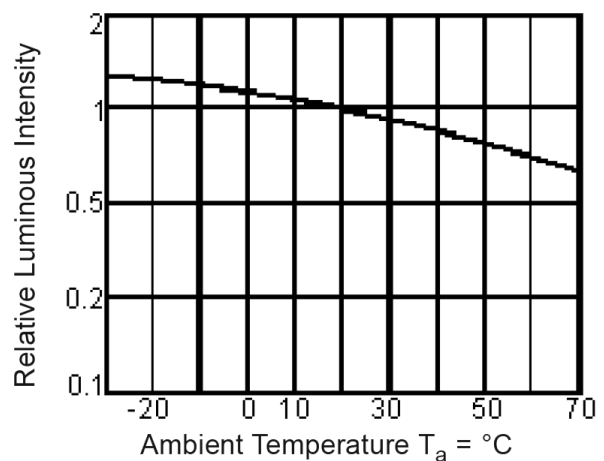
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current

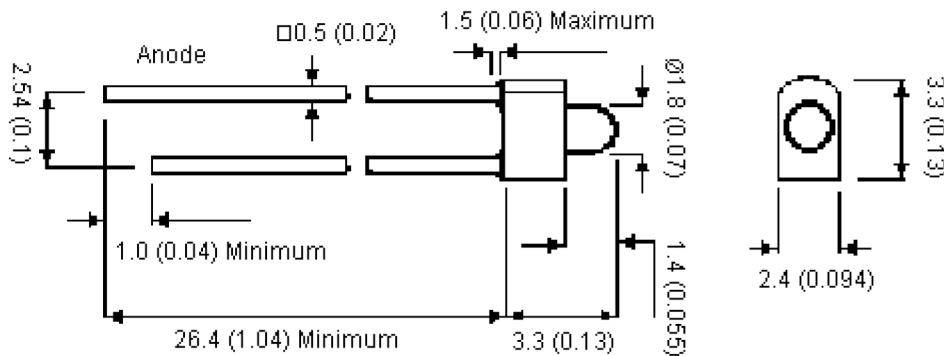
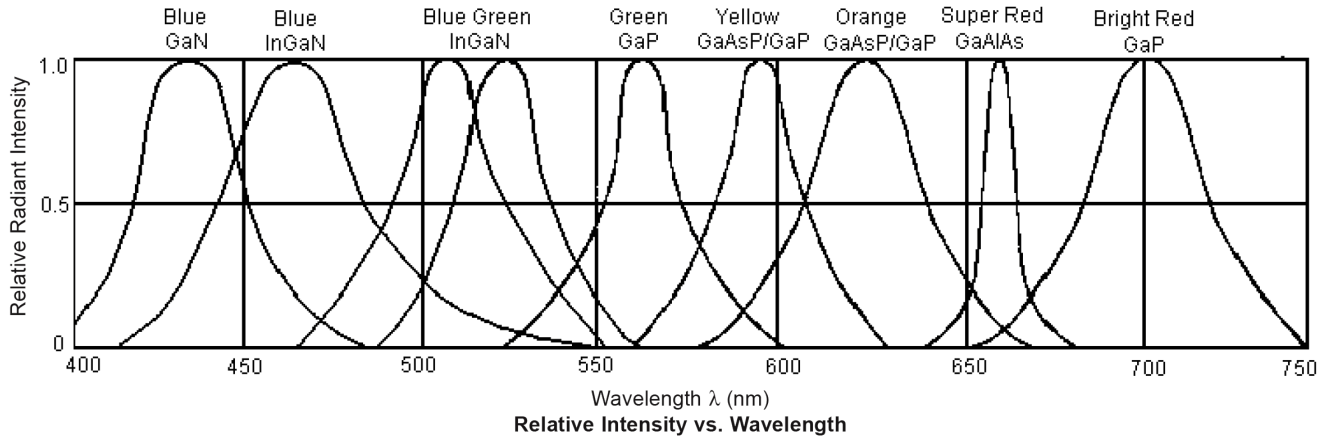


Luminous Intensity vs. Ambient Temperature



Tower LED

HE-Red, 1.8mm



Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
LED, 1.8mm, 76°, HE-Red	MCL914MD

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