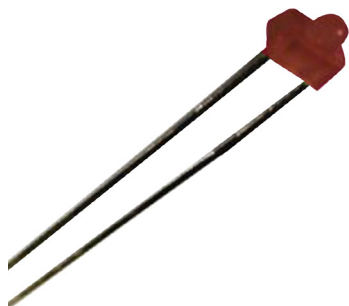


Tower LED

HE-Red, 1.8mm

multicomp **PRO**

RoHS
Compliant



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

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

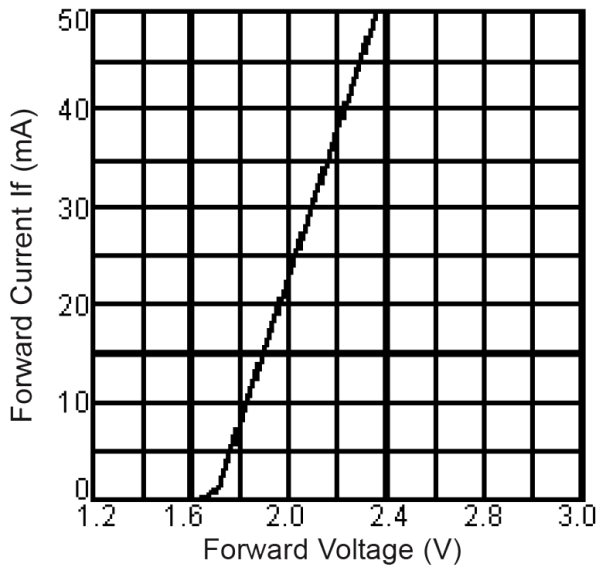
Electrical/Optical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	3.8	6.5	10	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	70	-	degrees	
Peak Emission Wavelength	λ_P	-	635	-	nm	-
Dominant Wavelength	λ_D	-	627	-		-
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	-

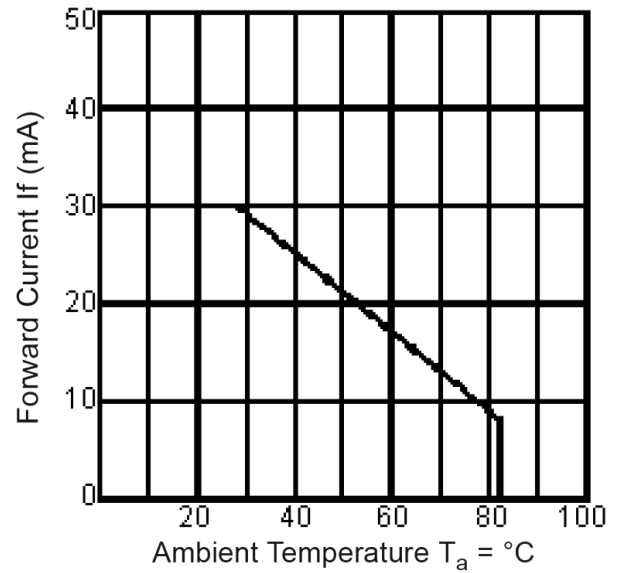
Tower LED

HE-Red, 1.8mm

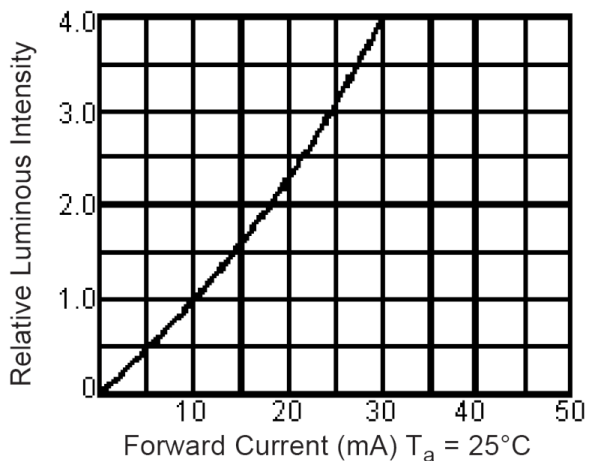
Bright Red (GaAsP on GaP $\lambda_P = 635\text{nm}$)



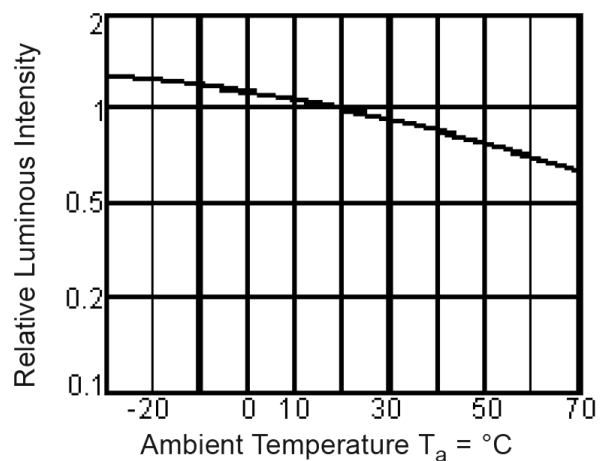
Forward Current vs. Forward Voltage



Forward Current Derating Curve



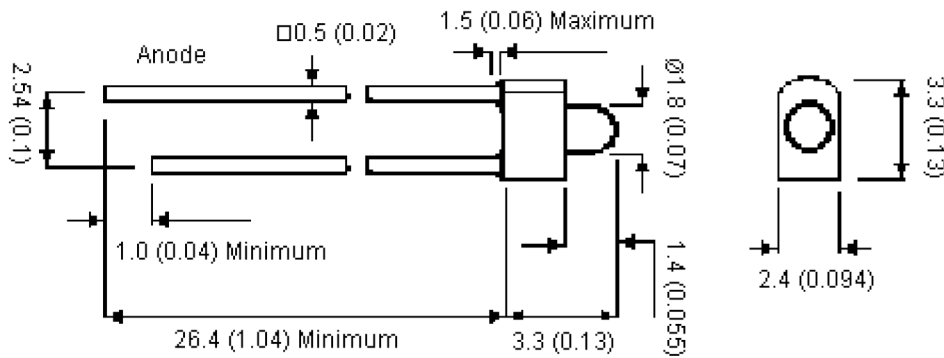
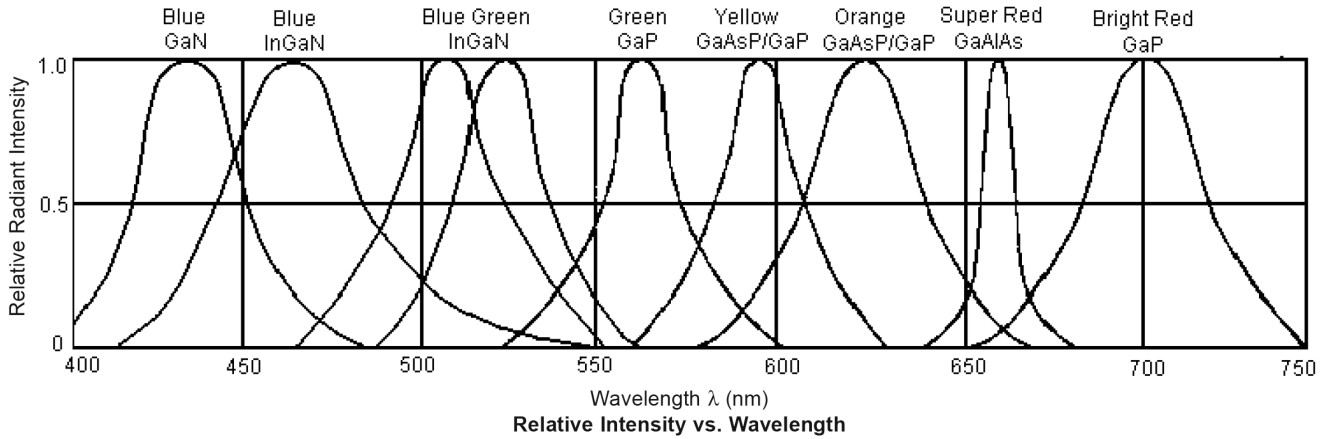
Luminous Intensity vs. Forward Current



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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