Tower LED
HE-Red, 2mm

multicomp PRO

Specifications:

Dice Material	: GaAsP on GaP
Emitted Colour	: HI-eff Red
Lens Colour	: Red Diffused
Peak Wavelength	: 635nm
Viewing Angle	: 60°
Luminous Intensity (IV)	: 7.8mcd

Absolute Maximum Ratings (T_a = 25°C)

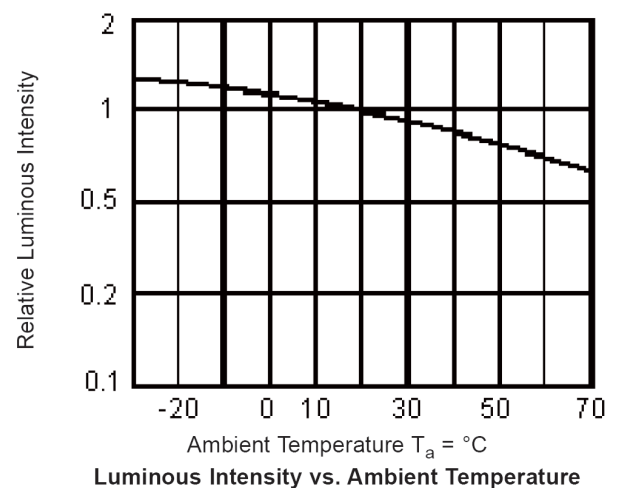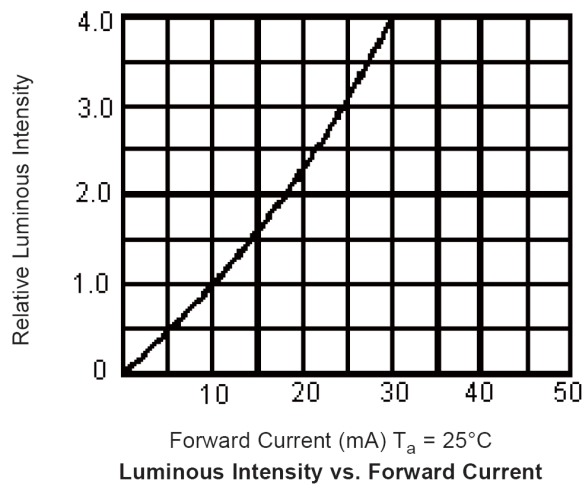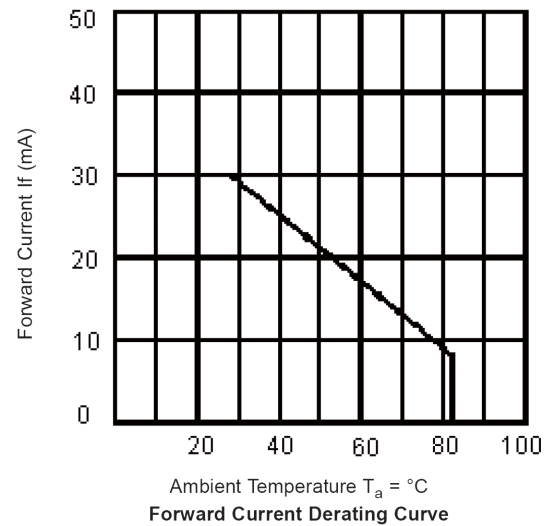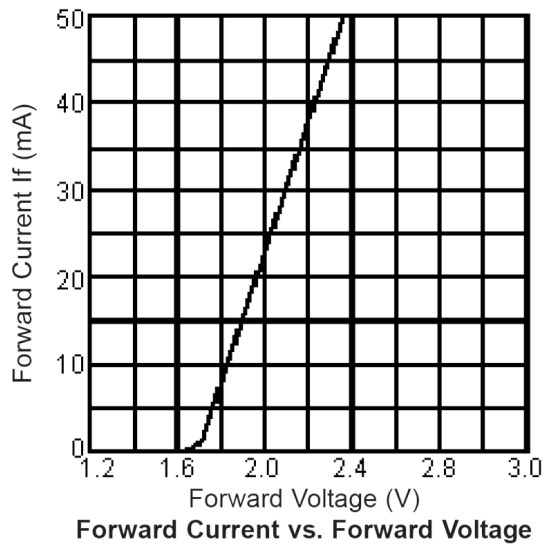|	
Reverse Voltage	5V
Reverse Current	10µA (V_R = 5V)
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260°C for 5 Seconds

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	3.5	7.8	11.5	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	60	-	degrees	
Peak Emission Wavelength	λP	-	635	-	nm	-
Dominant Wavelength	λD	-	625	-		-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	1.6	2	2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	85	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-		-

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Bright Red (GaP λP = 697nm)

Forward Current vs. Forward Voltage

Forward Current Derating Curve

Luminous Intensity vs. Forward Current

Luminous Intensity vs. Ambient Temperature

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Relative Intensity vs. Wavelength
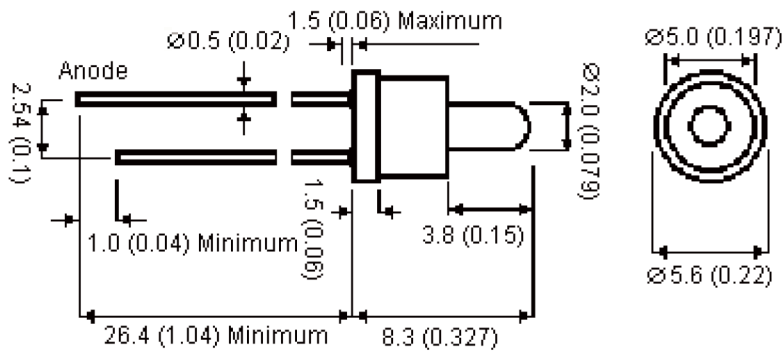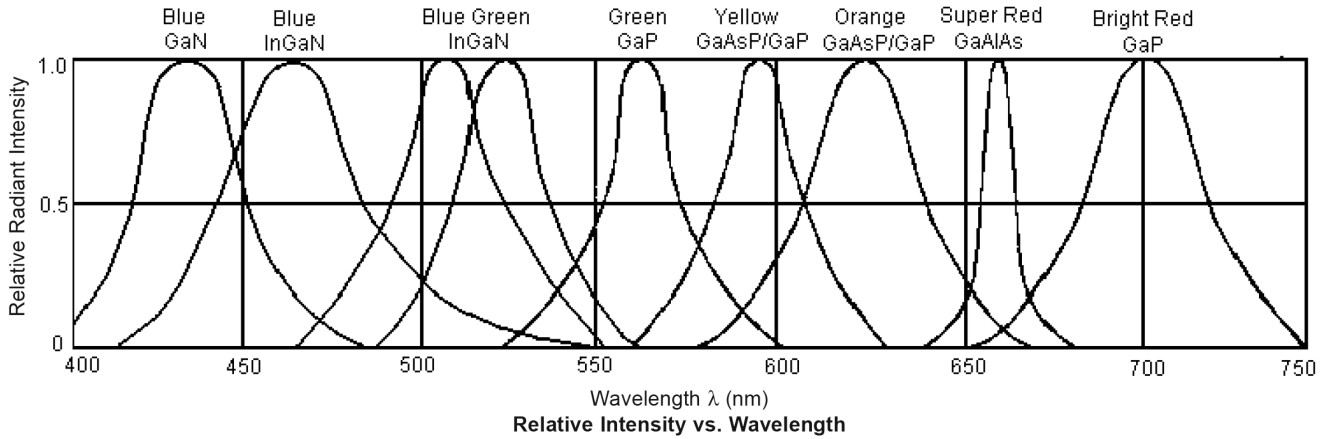
Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
LED, 2mm, 60°, HE-Red	MCL223MD

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Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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