Tower LED
Orange Red, 1.8mm

multicomp PRO

Specifications

Dice Material	: GaAsP on GaP
Emitted colour	: Orange Red
Lens colour	: Red Diffused
Peak wavelength	: 635nm
Viewing angle	: 70°
Luminous intensity (IV)	: 30mcd

Electrical / Optical Characterisitics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	25	30	40	mcd	
Viewing Angle	$2\theta1/2$		70		deg	
Peak Emission Wavelength	λp		635		nm	
Dominant Wavelength	λD	620	625	630	nm	IF = 20mA
Spectral Line Half-Width	$\Delta\lambda$		45		nm	
Forward Voltage	VF	1.8	2	2.6	V	
Power Dissipation	Pd			85		
Peak Forward Current (Duty 1/10 @ 1KHz)	IF (Peak)			100		
Recommended Operating Current	IF (Rec)		20		uA	VR=5V

Absolute Maximum Ratings: (Ta = 25°C)

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

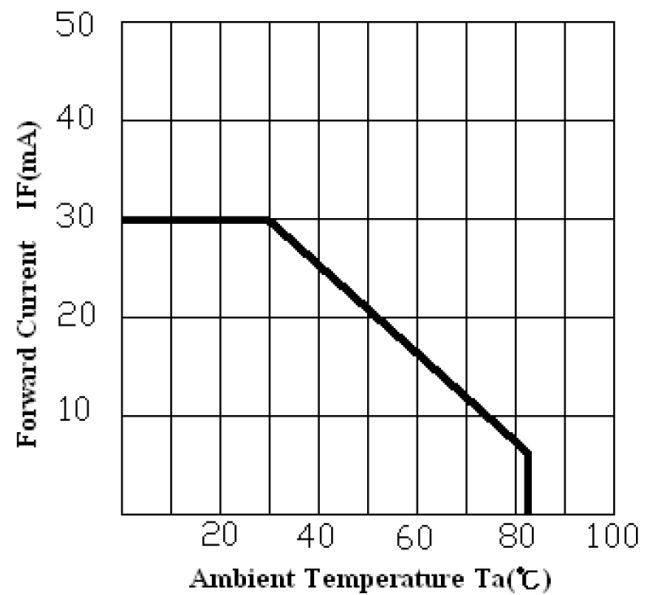**multicomp** PRO

Typical Electro-Optical Characteristics Curves

Orange (GaAsP/GaP λP=635nm)
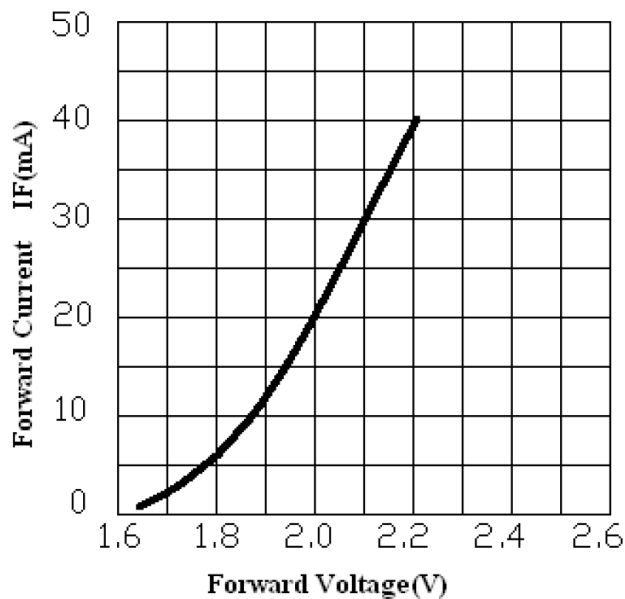
Forward Current vs. Forward Voltage

Forward Current Derating Curve
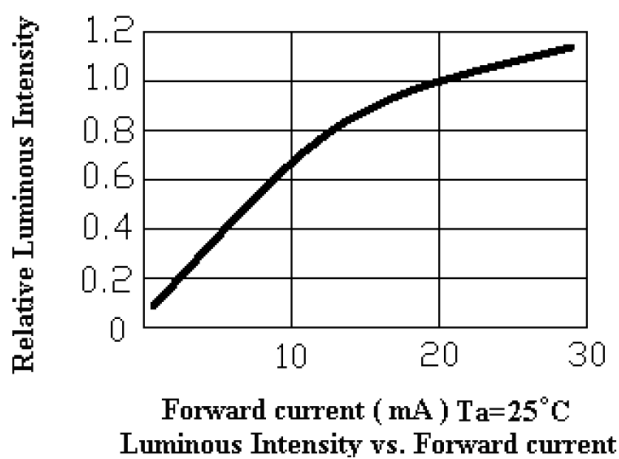
Forward current (mA) Ta=25°C
Luminous Intensity vs. Forward current
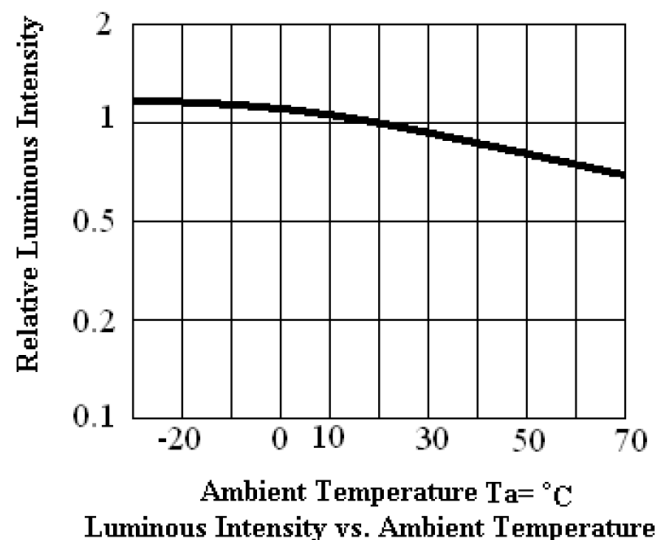
Ambient Temperature Ta= °C
Luminous Intensity vs. Ambient Temperature

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RELATIVE INTENSITY VS. WAVELENGTH
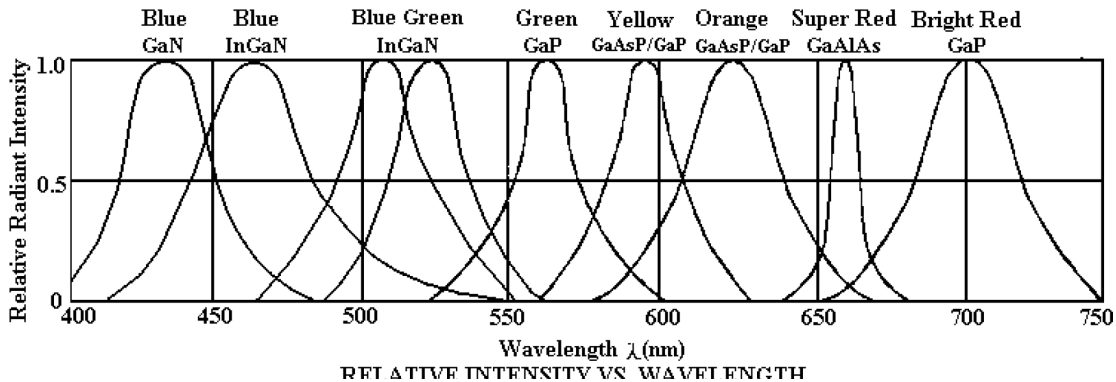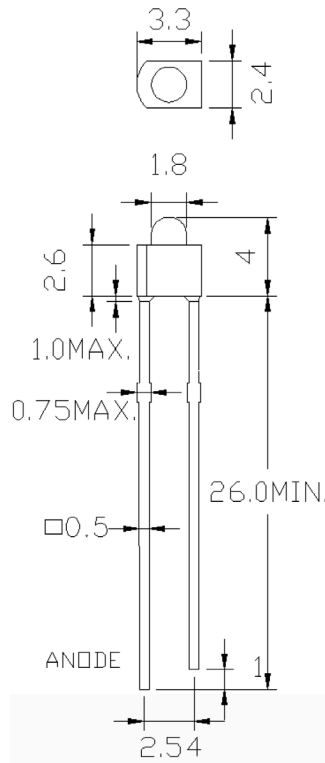
Dimensions

Dimensions : Millimetres

Part Number Table

Description	Part Number
Tower LED, Orange Red, 635mm, 70°, 30mcd, Through hole	MP007990

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