Rectangular LED
Super Orange Red, 2mm x 5.25mm

multicomp PRO

Specifications

Dice Material   : AlInGaP
Emitted colour   : Super Orange Red
Lens colour   : Red Diffused
Peak wavelength   : 635nm
Viewing angle   : 120°
Luminous intensity (IV)   : 130mcd

Electrical / Optical Characterisitics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	90	130	170	mcd	
Viewing Angle	2θ1/2		120		deg	
Peak Emission Wavelength	λp		635		nm	IF = 20mA
Dominant Wavelength	λD	620	625	630	nm	
Spectral Line Half-Width	Δλ		20		nm	
Forward Voltage	VF	1.8	2	2.6	V	
Reverse Current	Ir	-	-	10	uA	VR=5V

▲ Luminous intensity (IV) ±10%, Forward Voltage (VF) ±0.1V, Wavelength (λd) ±0.5nm

Absolute Maximum Ratings: (Ta = 25°C)

| Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	85	mW
Peak Forward Current (Duty 1/10 @ 1KHZ)	IF (Peak)	100	mA
Recommended Operating Current	IF (Rec)	30	mA
Electrostatic Discharge	ESD_{HBM}	2000	V
Operating Temperature Range	T_{OPR}	-40 to +85	°C
Storage Temperature Range	T_{STG}	-40 to +100	°C
Lead Soldering Temperature Range (1.6 mm (1/16 inch) from body)	Reflow Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.		

multicomp PRO

Typical Electro-Optical Characteristics Curves

Super Orange (AlInGaP λP=635nm)
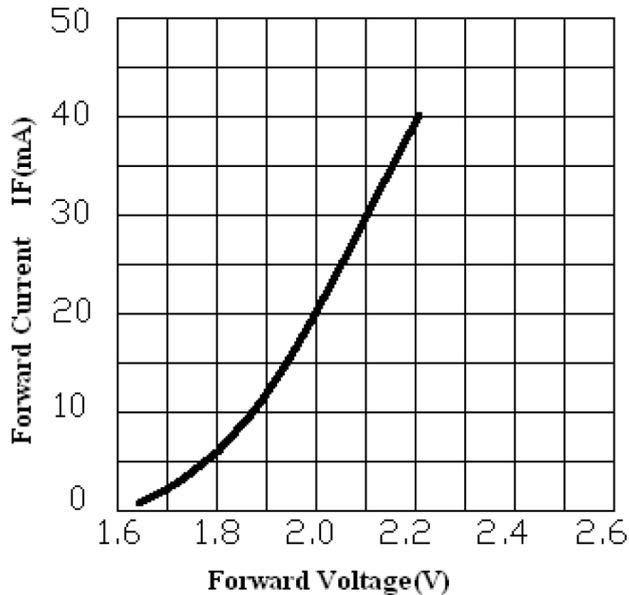
Forward Current vs. Forward Voltage
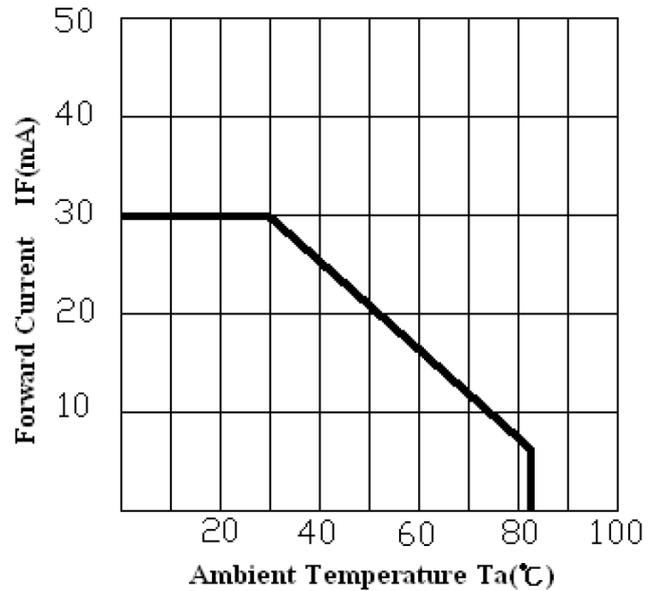
Forward Current Derating Curve
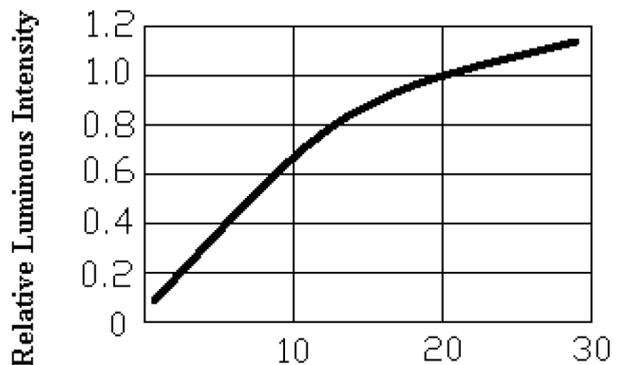
Forward current (mA) Ta=25°C
Luminous Intensity vs. Forward current
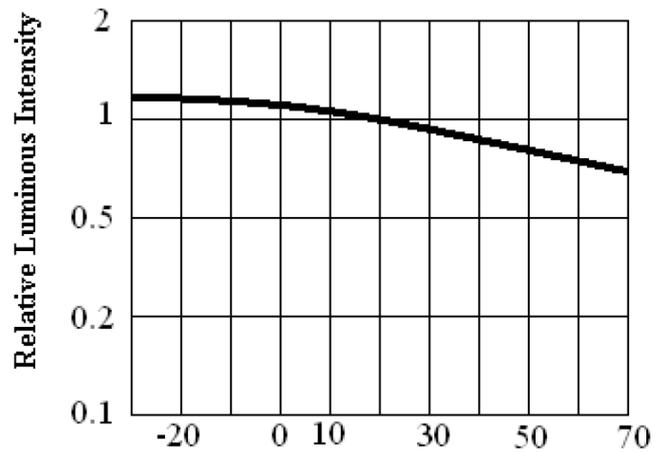
Ambient Temperature Ta= °C
Luminous Intensity vs. Ambient Temperature

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

multicomp PRO

Page <2>   16/08/21   V1.0

Rectangular LED
Super Orange Red, 2mm x 5.25mm

Relative Intensity VS. wavelength

Dimensions
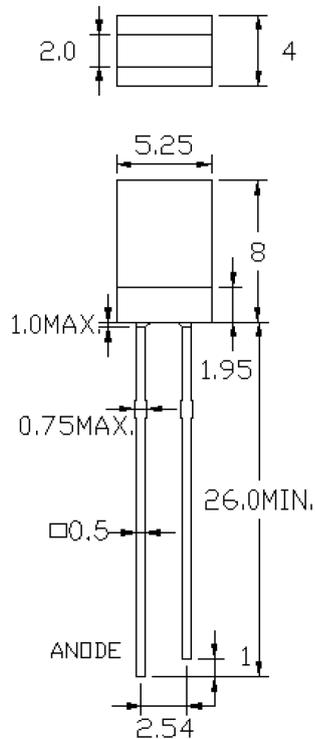
Dimensions : Millimetres

Part Number Table

Description	Part Number
Rectangular LED, Super Orange Red, 635nm, 120°, 130mcd, Through hole	MP007957

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

multicomp PRO

Page <3>   16/08/21   V1.0