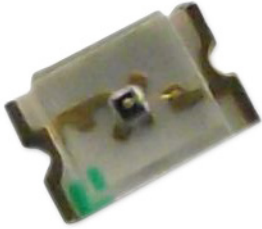


0805 SMD LED

Super Blue

multicomp **PRO**

RoHS
Compliant



Specifications

Dice Material	: InGaN
Emitted Colour	: Super blue
Epoxy Colour	: Water clear
Peak Wavelength	: 470 nm
Viewing Angle	: 140 degrees
Luminous Intensity (IV)	: 55 mcd

Electrical / Optical Characteristics at T_A = 25°C

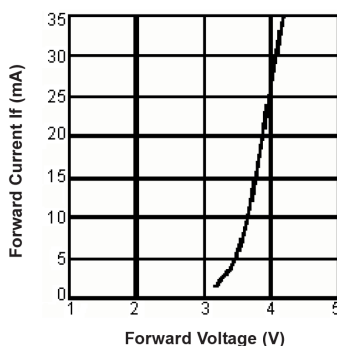
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	45	55	75	mcd	IF = 20mA
Viewing Angle	2θ1/2	-	140	-	Degrees	
Peak Emission Wavelength	λP	-	470	-	nm	
Dominant Wavelength	λD	-	472	-		-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	2.8	3.5	4	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current Duty 1 / 10 at 1 KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

Absolute Maximum Ratings (T_A = 25°C)

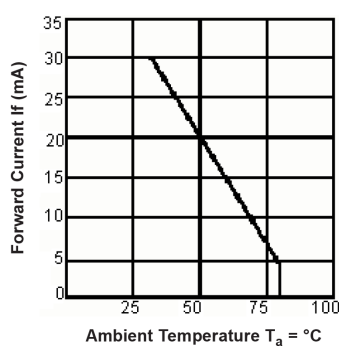
Reverse Voltage	5 V
Reverse Current	10 μA (VR = 5 V)
Electrostatic Discharge (ESD)	200 V
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature	260°C for 5 Seconds

Super Blue (InGaN) λP = 470 nm)

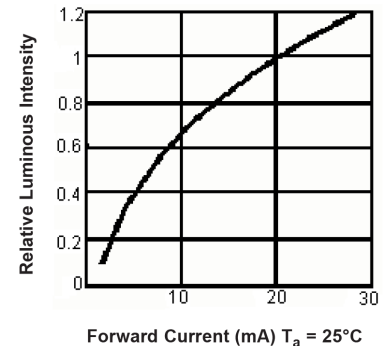
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



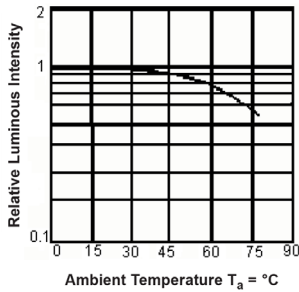
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp **PRO**

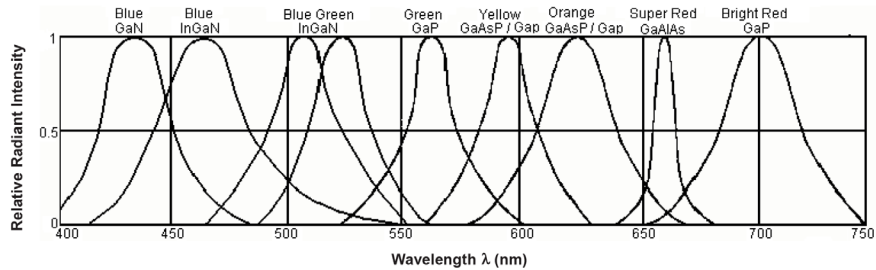
0805 SMD LED

Super Blue

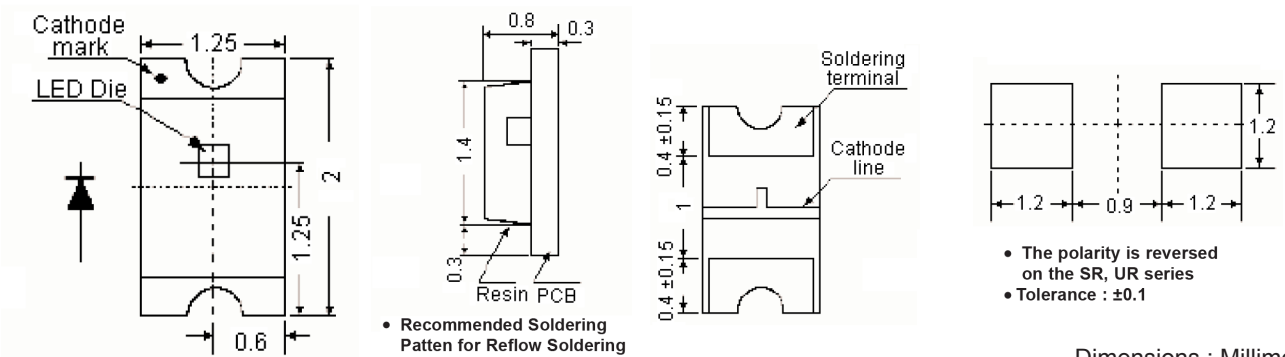
Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength



Diagram



Dimensions : Millimetres

Part Number Table

Description	Part Number
LED, SMD, 0805, Super-Blue	MCL-S270SBLC

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