

**RoHS
Compliant**

Features

- 5mm × 5mm SMT LED, 1.6mm Thickness.
- Wide Viewing Angle.
- Ideal For Backlight And Indicator.



Applications

- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and back-lighting in telephone and fax.
- Flat backlight for LCD switch and symbol.

Specifications

Emitted colour : Blue / Red / Green
Dice : (InGaN) / (InGaAlP) / (InGaN)
Lens colour : Water clear

Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Blue	Red	Green	Unit
Power Dissipation	P _D	100	62	100	mW
Forward current	I _F	25			mA
Peak Forward Current*1	I _{FP}	100			
Reverse voltage	V _R	5			V
Operating Temperature	T _{opr}	-40°C to + 85°C			
Storage Temperature	T _{STG}				

Notes: *1: Pulse width≤0.1ms, Duty cycles≤1/10

Electrical / Optical Characteristics at T_A = 25°C

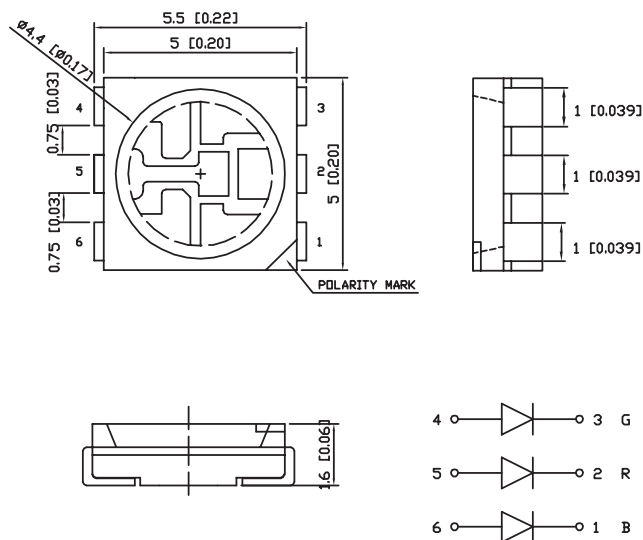
Parameter	Symbol	Device	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	Blue Red Green	2.8 1.8 2.8	-	3.6 2.6 3.6	V	I _F =20mA
Reverse Current	I _R	Blue Red Green	-	-	10	μA	V _R =5V
Dominant Wavelength	λ _D	Blue Red Green	464 617 518	-	473 629 530	nm	I _F =20mA
Luminous Intensity	I _V	Blue Red Green	500 500 2600	-	845 845 3200	mcd	I _F =20mA
Viewing Angle	2θ1/2	Blue Red Green	-	120 120 120	-	Deg.	I _F =20mA

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows::

- wavelength: ±1nm
- Luminous Intensity: ±15%
- Forward Voltage: ±0.1V

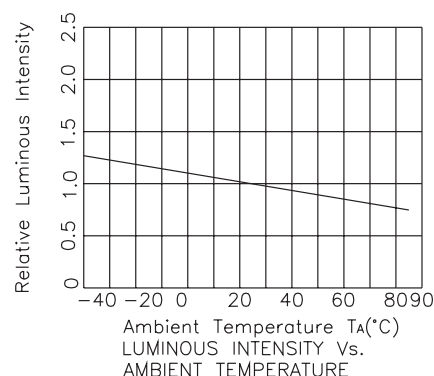
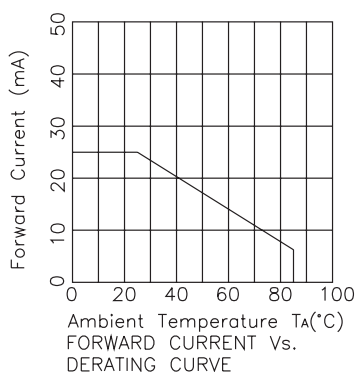
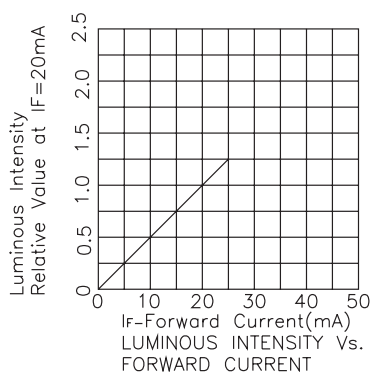
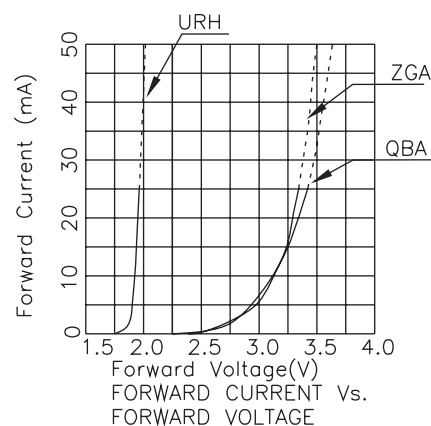
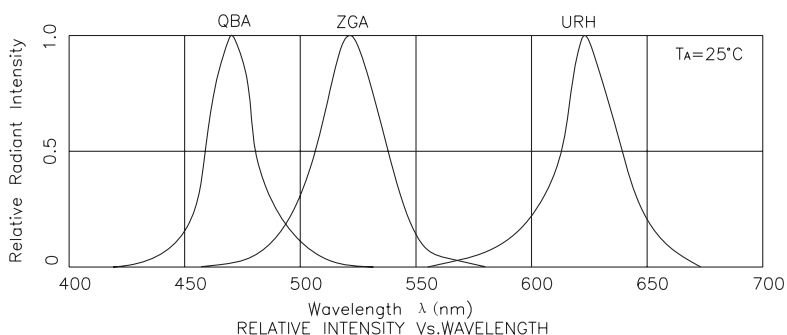
Package Dimensions

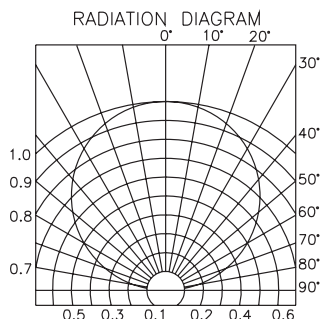


Notes:

Tolerance is ± 0.25 mm unless otherwise noted

Typical Electrical/Optical Characteristics Curves





Part Number Table

Description	Part Number
Multi Colour Led, Blue, Red and Green, Water Clear, SMD 5550	MP017047

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