

**RoHS
Compliant**

Features

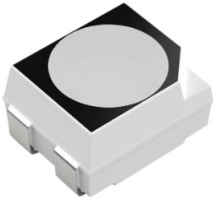
- Wide view angle

Applications

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

Specifications

Dimensions	: 3.5mm × 2.8mm × 1.9mm.
Emitted colour	: Red / Green / Blue
Dice	: InGaAlP/InGaN
Lens colour	: White Diffused



Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Red	Green	Blue	Unit
Power Dissipation	P _D	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 + 100°C			
Storage Temperature	T _{STG}				

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

Optical / Electrical Characteristics at T_A = 25°C

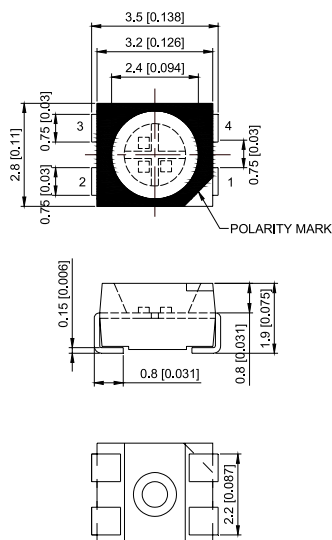
Parameter	Symbol	Device	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	Red Green Blue	1.8 2.8 2.8	-	2.6 3.6 3.6	V	I _F =20mA
Reverse Current	I _R	Red Green Blue	-	-	10	μA	V _R =5V
Dominant Wavelength	λ _D	Red Green Blue	617 518 467	-	629 530 476	nm	I _F =20mA
Luminous Intensity	I _V	Red Green Blue	650 1400 385	-	1400 2900 845	mcd	I _F =20mA
Viewing Angle	2θ _{1/2}	Red Green Blue	-	120 120 120	-	Deg.	I _F =20mA

Remarks:

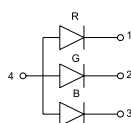
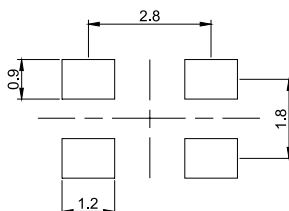
If special sorting is required (e.g. binning based on forward voltage, luminous intensity or chromaticity), the typical accuracy of the sorting process is as follows:

- Chromaticity Coordinates: ±0.005
- Luminous Intensity: ±15%
- Forward Voltage: ±0.1V

Package Dimensions



Recommended soldering pattern

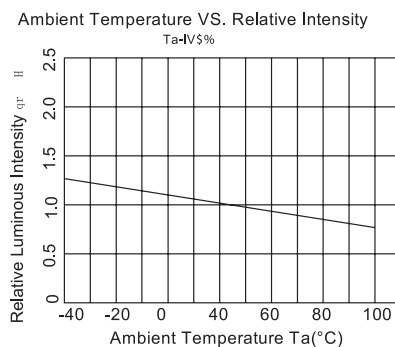
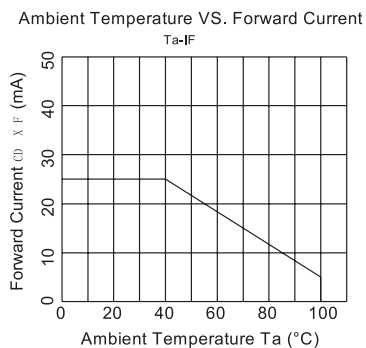
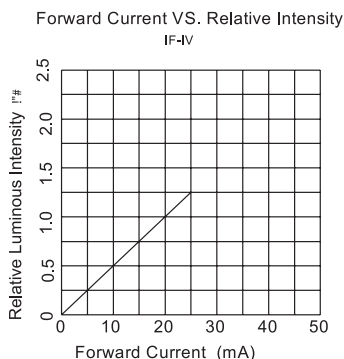
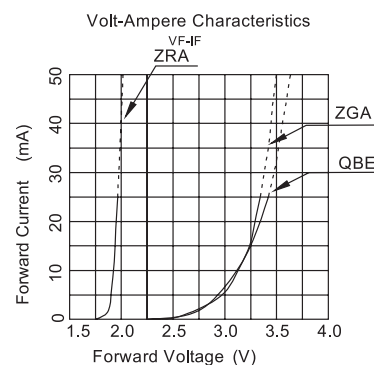
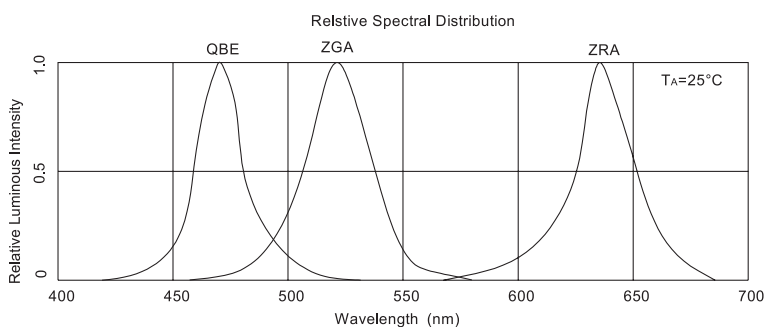


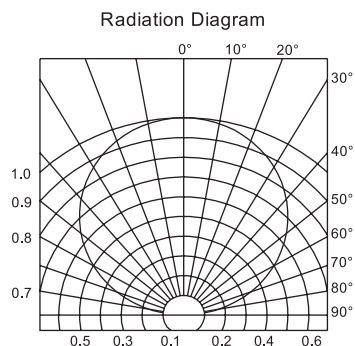
Dimensions : Millimetres (Inches)

Notes:

Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted

Typical Electrical/Optical Characteristics Curves





Part Number Table

Description	Part Number
Multi Colour Led, Common Anode, Red, Green and Blue, White Diffused, SMD 3528, 1.9mm	MP017045

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