

RoHS Compliant

Specifications

Dice material : InGaN/Sapphire

Emmiting Colour : Blue
Lens colour : Water clear
Peak wavelength : 468nm
Viewing angle : 130°
Luminous intensity (IV) : 180mcd

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit	
Power Dissipation	PD	102	mW	
Reverse Voltage	VR	5	V	
D.C Forward current	lf	30	mA	
Peak Current (1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	80	mA	
Operating Temperature	Topr.	-30 to +80	°C	
Storage Temperature	Tstg.	-40 to +85	°C	
Soldering Temperature (1.6mm from body)	Tsol	Reflow Soldering : 260oC for 10 sec.		

Electrical and Optical Characteristics

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	lv	If=20mA	110	180		mcd
Forward Voltage	Vf	If=20mA		3	3.4	V
Peak Wavelength	λр	If=20mA		468		nm
Dominant Wavelength	λd	If=20mA		465		nm
Reverse Current	lr	Vr=5V			50	μA
Viewing Angle	201/2	If=20mA		130		deg
Spectrum Line Halfwidth	Δλ	If=20mA		26		nm

Notes

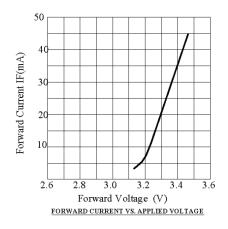
- 1. Tolerance of Luminous Intensity is ±15%
- 2. Tolerance of Forward Voltage is ±0.1V
- 3. Tolerance of Dominant Wavelength is ±1nm

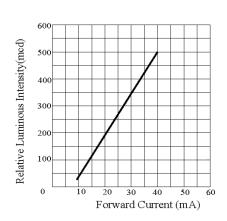
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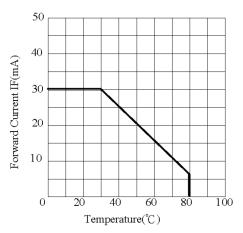


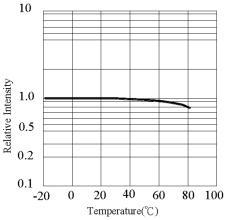


Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)

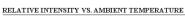


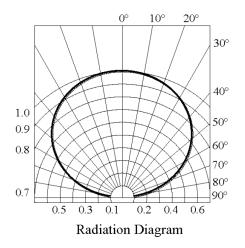






FORWARD CURRENT VS. AMBIENT TEMPERATURE



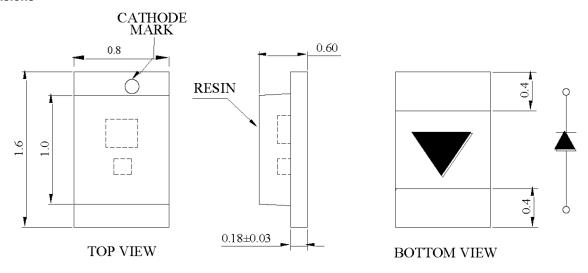


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Dimensions



Tolerance is ±0.1mm unless otherwise noted.

Dimensions: Millimetres

Precautions in use:

Storage

Recommend storage environment:

Temperature: 5°C to 30°C (41°F to 86°F)

Humidity: 60% RH Max.

Moisture measures: Please refer to Moisture-sensitive label on reels package bags.

If unused LEDs remain, they should be stored in moisture proof packages, such as sealed container with packages of moisture absorbent material (silica gel). It is also recommended to return the LEDs to the original moisture proof bag and to reseal the moisture proof bag again. Fold the opened bag firmly and keep in dry environment.

Soldering

Reflow Soldering

Reflow soldering - Recommend use of upper and lower heater type reflow furnace.

260°C Max for up to 10 seconds, one time only.

Pre-heat is 150°C Max for up to 2 minutes Max.

In case of screen-printing, keep metal mask thickness between 0.2mm and 0.3mm.

Cleaning

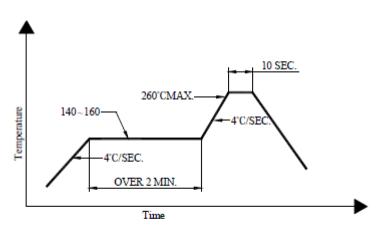
Surface condition of this device may change when organic solvents such as trichloroethylene or acetone were applied. Avoid using organic solvent.

Recommend ultrasonic method 300W Max.

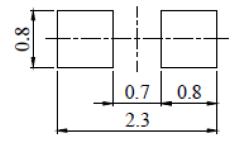




Reflow Temp/Time



Reflow Soldering Pad Dimensions



Part Number Table

Description	Part Number
Chip LED, Blue, 468nm, 130°, 180mcd, Surface Mount	MP008254

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