

### Features

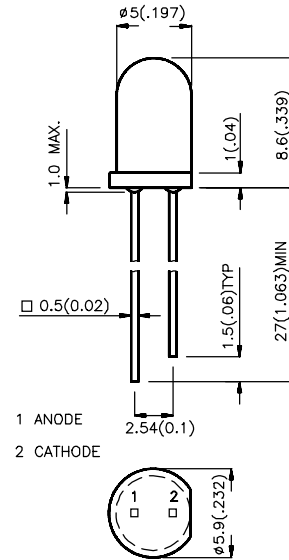
- LOW POWER CONSUMPTION.
- SOLID STATE BLUE LIGHT SOURCE.
- SUITABLE FOR FULL COLOR LED DISPLAYS AND INDICATORS DIAGNOSTIC/ANALYTICAL EQUIPMENT.

L7113PBC/E BLUE

### Description

The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

### Package Dimensions



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

### Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	$2\theta_{1/2}$
L7113PBC/E	BLUE (InGaN)	WATER CLEAR	650	1400	16°

### Note:

1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

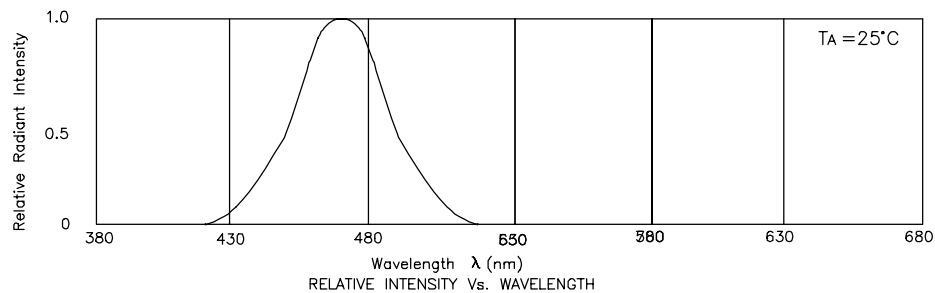
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_D$	Dominate Wavelength	Blue	465		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Blue	25		nm	IF=20mA
C	Capacitance	Blue	110		pF	VF=0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Blue	3.7	4.1	V	IF=20mA
I <sub>R</sub>	Reverse Current	All		10	uA	VR = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	Blue	Units
Power dissipation	102	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Soldering Temperature [2]	260 °C For 5 Seconds	

### Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



## Blue L7113PBC/E

