

W7083PBD/H BLUE

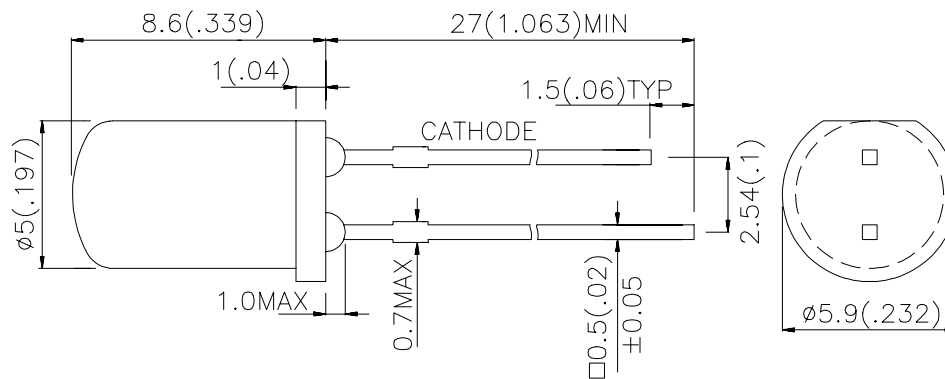
### Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- I.C. COMPATIBLE.

### 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 subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
W7083PBD/H	BLUE(InGaN)	BLUE DIFFUSED	280	450	60°

Note:

1. θ1/2 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

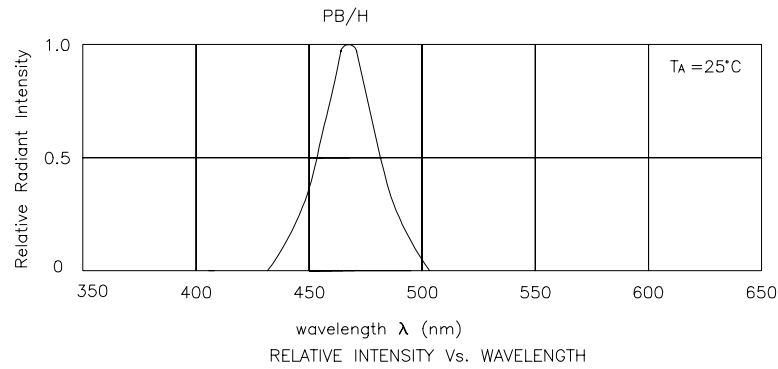
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Blue	467		nm	I <sub>F</sub> = 20mA
λ <sub>D</sub>	Dominate Wavelength	Blue	470		nm	I <sub>F</sub> = 20mA
Δλ <sub>1/2</sub>	Spectral Line Half-width	Blue	30		nm	I <sub>F</sub> = 20mA
C	Capacitance	Blue	110		pF	V <sub>F</sub> = 0V, f = 1MHz
V <sub>F</sub>	Forward Voltage	Blue	3.7	4.3	V	I <sub>F</sub> = 20mA
I <sub>R</sub>	Reverse Current	Blue		10	μA	V <sub>R</sub> = 5V

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

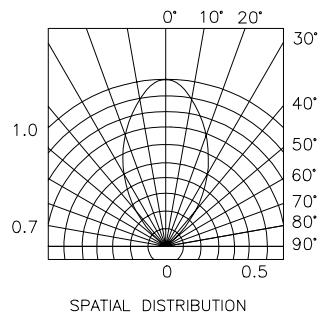
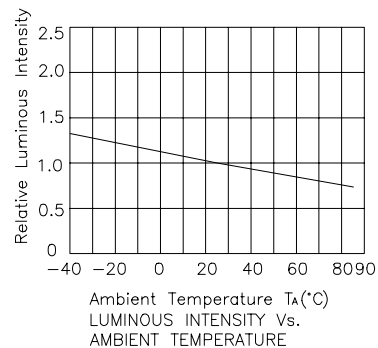
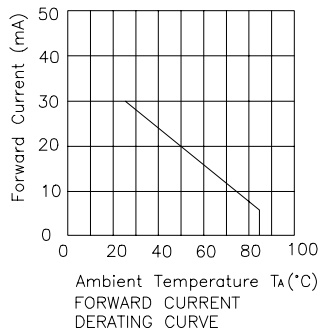
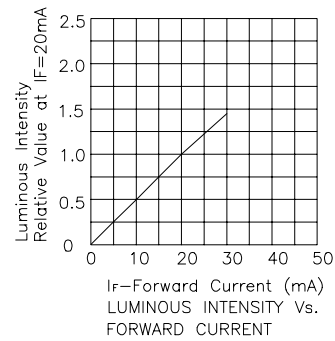
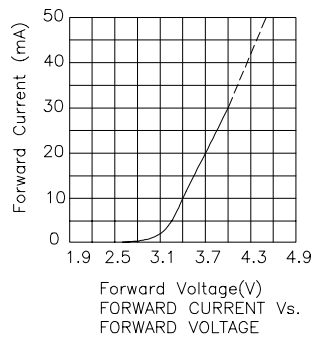
Parameter	Blue	Units
Power dissipation	108	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.



## Blue W7083PBD/H



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