PRELIMINARY SPEC

### T-1 3/4 (5mm) SOLID STATE LAMP

Blue

Part Number: WP7083QBD/D

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

### Features

- Outstanding material efficiency.
- Reliable and rugged.
- RoHS compliant.

### Description

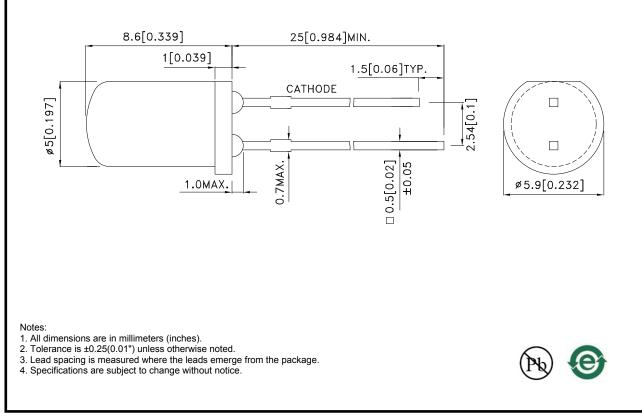
The Blue source color devices are made with InGaN on Sapphire Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

### **Package Dimensions**



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Selection Guide										
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]					
			Min.	Тур.	201/2					
WP7083QBD/D	Blue (InGaN)	BLUE DIFFUSED	50	120	60°					

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	I⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	I⊧=20mA
lr	Reverse Current	Blue		10	uA	VR = 5V

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

### Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.
3. 5mm below package base.

