

### **SUPER FLUX LED LAMP**

PRELIMINARY SPEC

Part Number: L-7677C2PBC-Z-DTS



# Features:

- \*High Luminance output.
- \*Design for High Current Operation.
- \*Uniform Color.
- \*Low Power Consumption.
- \*Low Thermal Resistance.
- \*Low Profile.
- \*Packaged in tubes for use with automatic insertion equipment.
- \*RoHS Compliant.

# **Technical Data**



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

### Description

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.

### Benefits:

- \*Outstanding Material Efficiency.
- \*Electricity savings.
- \*Maintenance savings.
- \*Reliable and Rugged.

### **Typical Applications:**

- \*Automotive Exterior Lighting.
- \*Electronic Signs and Signals.
- \*Specialty Lighting.



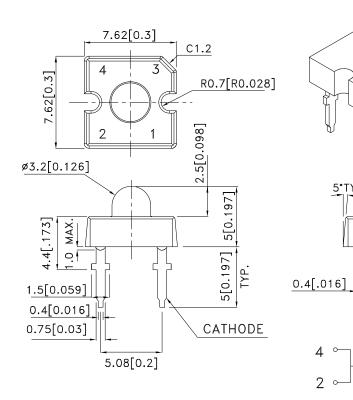


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# **Outline Drawings**



### Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

## Absolute Maximum Ratings at TA=25°C

PARAMETER	PB-Z	UNITS
DC Forward Current	50	mA
Power dissipation	210	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	°C
Storage Temperature	-55 To +85	°C
Lead Solder Temperature[1]	260°C For 5 Seconds	

5.08[0.2]

1.1.5mm[0.06inch]below seating plane.

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### **Selection Guide**

Part No.	LED COLOR	lv(cd) @50r Min.		Viewing Angle[2] 2θ1/2 Typ.
L-7677C2PBC-Z-DTS	Blue (InGaN)	5.7	9.5	15°

### Notes:

# Optical Characteristics at TA=25°C I<sub>F</sub>=50mA Rθj-a=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λΡΕΑΚ (nm) TYP.	DOMINANT[1] WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.	
PB-Z	458	465	22	

### Note:

### Electrical Characteristics at TA=25°C

DEVICE TYPE	VF (V	VOLTAGE [1] OLTS) @ 0mA	REVERSE CURRENT IR (uA) @ VR=5V	CAPACITANCE C (pF) @ VF=0V F=1MHZ	THERMAL RESISTANCE Rθj -pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
PB-Z	3.5	4.2	10	110	130

### Note:

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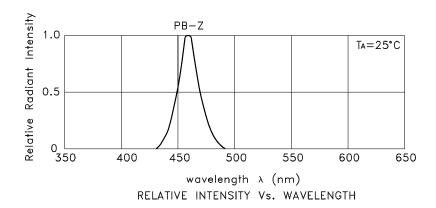
<sup>1.</sup>Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

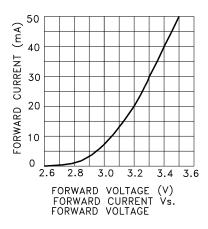
<sup>1.</sup> The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

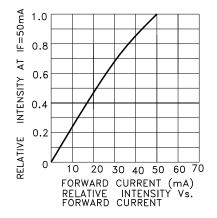
<sup>1.</sup> Forward Voltage: +/-0.1V.

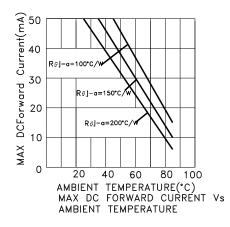
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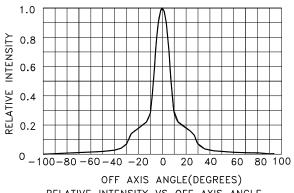
# **Figures**











RELATIVE INTENSITY VS OFF AXIS ANGLE

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