# 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:

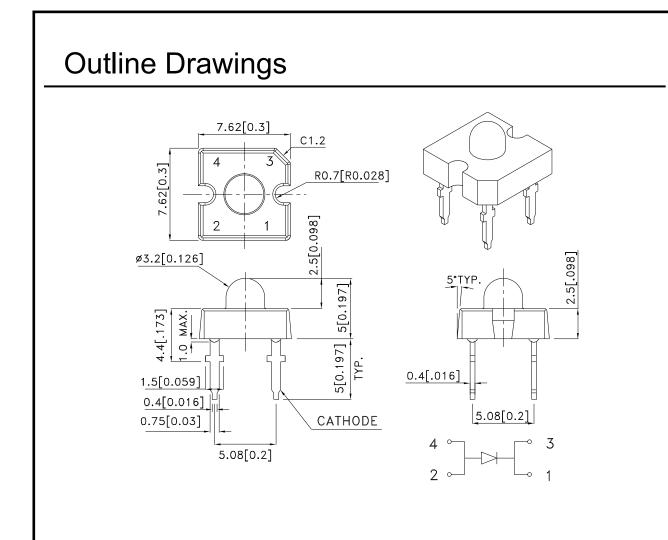
- \*Outstanding Material Efficiency.
- \*Electricity savings.
- \*Maintenance savings.
- \*Reliable and Rugged.

### **Typical Applications:**

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



DATE: AUG/07/2007 DRAWN: Y.L.LI



#### 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 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	

1.1.5mm[0.06inch]below seating plane.

Part No.		LED CO		lv(cd)[1] @50mA in. Typ.	Viewing Angle[2] 201/2 Typ.
L-7677C2PBC-Z-D	TS	Blue (InG	GaN) 5	.7 9.5	15°
			r the device has stabilized; Lur ensity is 1/2 the optical centerli		
:50mA Rθj-a=20	ristics at TA=25°C 00°C/W PEAK WAVELENGTH λΡΕΑΚ (nm) TYP.		DOMINANT[1] WAVELENGTH λDOM (nm) TYP.		SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
DEVICE	λΡΕ	AK (nm)	λDOM (ι	nm)	
TYPE PB-Z	λPE	<b>AK (nm)</b> TYP. 458	λDOM (ι	nm)	<b>TYP</b> . 22
TYPE PB-Z te: he dominant wavelengt	λΡΕ h is derived from th eristics at T/ FORWARD V VF (V0	AK (nm) TYP. 458 e CIE Chromaticity	λ <b>DOM (</b> ι ΤΥΡ. 465	nm)	<b>TYP</b> . 22
TYPE PB-Z te: he dominant wavelengt	λΡΕ h is derived from th eristics at T/ FORWARD V VF (V0	AK (nm) TYP. 458 e CIE Chromaticity A=25°C VOLTAGE [1] OLTS) @	λDOM (i TYP 465 / Diagram and represents the p Diagram and represents the p REVERSE CURRENT IR (uA) @	capacitance Capacitance C (pF)	TYP. 22 vice; Wavelength: +/-1nm. THERMAL RESISTANCE R0j -pin
TYPE PB-Z te: he dominant wavelengt	λΡΕ n is derived from th eristics at T/ FORWARD \ VF (Vi () IF=5	AK (nm) TYP. 458 e CIE Chromaticity e CIE Chromaticity VOLTAGE [1] OLTS) 0 0 0 0 0 0 0 0	λDOM (i TYP 465 / Diagram and represents the p / Diagram and represents the p	CAPACITANCE C (pF) VF=0V F=1MHZ	TYP. 22 vice; Wavelength: +/-1 THERMAL RESISTANC R0j -pin °C/W

