PRELIMINARY SPEC

Part Number: L-7701C4PBC-Z-DTS



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.

Features

- * HIGH LUMINANCE OUTPUT.
- * DESIGN FOR HIGH CURRENT OPERATION.
- * SOLDERLESS MOUNTING TECHNIQUE.
- * LOW POWER CONSUMPTION.
- * LOW THERMAL RESISTANCE.
- * LOW PROFILE.
- * PACKAGED IN TUBES FOR USE WITH AUTOMATIC INSERTION EQUIPMENT.
- * RoHS COMPLIANT.

Benefits

*Rugged Lighting Products. *Electricity savings. *Maintenance savings. *Environmental Conformance.

Typical Applications

*Automotive Exterior Lighting. *Solid State Lighting and Signaling.



DATE: MAY/28/2007 DRAWN: S.J.LIU

Outline Drawings



REV NO: V.1 CHECKED: Allen Liu DATE: MAY/28/2007 DRAWN: S.J.LIU

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

Selection Guide

Part No.	LED COLOR	lv(cd) ^[1] @50mA		Viewing Angle ^[2] 201/2	
		Min.	Тур.	Тур.	
L-7701C4PBC-Z-DTS	BLUE (InGaN)	1.8	3.5	50°	

Notes:

1.Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous intensity / luminous flux: +/-15%. 2.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Optical Characteristics at TA=25°C

IF=50mA R_{0j-a}=200°C/W

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

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

Electrical Characteristics at TA=25°C

DEVICE TYPE	FORWARE VF(VO (IF=5	0 VOLTAGE 0LTS) ^[1] @ 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:					

1. Forward Voltage: +/-0.1V.

Figures

