

PRELIMINARY SPEC

Part Number: L-7677C2VGC-Z



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:

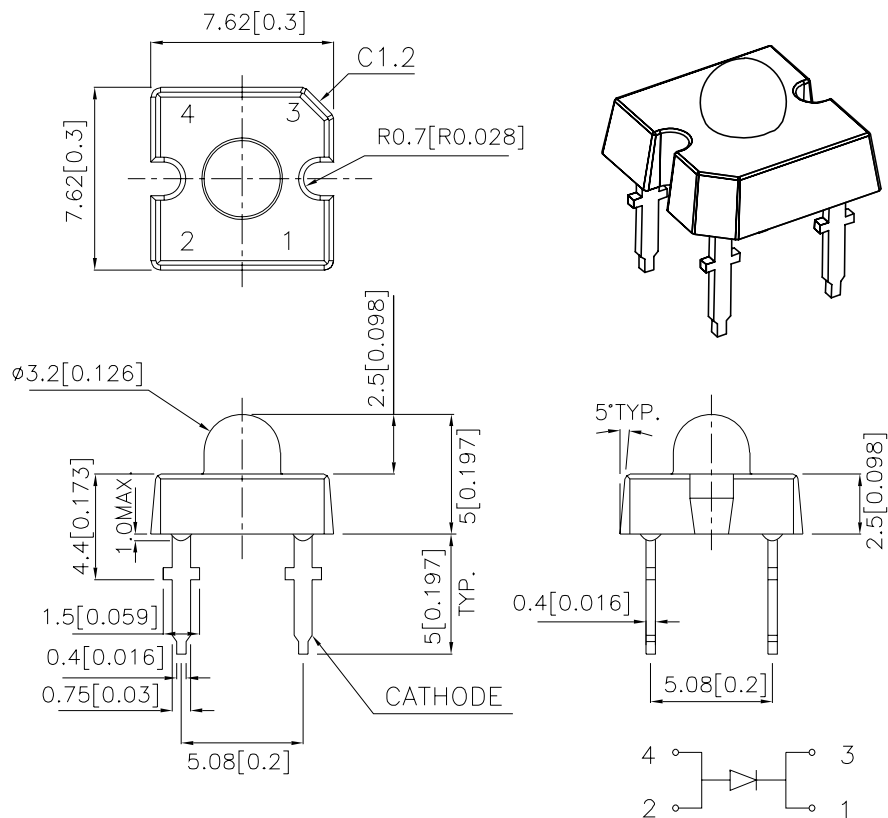
- *Automotive Exterior Lighting.
- *Electronic Signs and Signals.
- *Specialty Lighting.

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.



Outline Drawings



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 $T_A=25^{\circ}\text{C}$

PARAMETER	VG-Z	UNITS
DC Forward Current	50	mA
Power dissipation	210	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	$^{\circ}\text{C}$
Storage Temperature	-55 To +85	$^{\circ}\text{C}$
Lead Solder Temperature ^[1]	260 $^{\circ}\text{C}$ For 5 Seconds	

1. 1.5mm[0.06inch] below seating plane.

Selection Guide

Part No.	LED COLOR	Iv(cd) ^[1] @50mA		Viewing Angle ^[2] 2θ1/2 Typ.
		Min.	Typ.	
L-7677C2VGC-Z	InGaN GREEN	10	25	30°

Notes:
1.Luminous intensity is measured with an integrating sphere after the device has stabilized:Luminous Intensity/ Luminous Flux: +/-15%.
2.θ1/2 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 Rθj-a=200°C/W

DEVICE TYPE	PEAK WAVELENGTH λPEAK (nm) TYP.	DOMINANT ^[1] WAVELENGTH λDOM (nm) TYP.	SPECTRAL LINE WAVELENGTH Δλ1/2(nm) TYP.
VG-Z	525	535	39

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	FORWARD VOLTAGE VF(VOLTS) ^[1] @ If=50mA		REVERSE CURRENT IR (uA) @ VR=5V	CAPACITANCE C (pF) @ VF=0V F=1MHZ	THERMAL RESISTANCE Rθj-pin °C/W
	TYP.	MAX.	MAX.	TYP.	TYP.
VG-Z	3.5	4.2	10	65	130

Note:
1. Forward Voltage: +/-0.1V.

Figures

