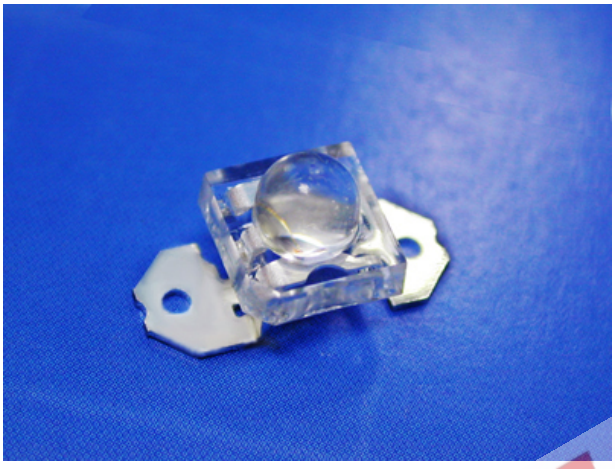
PRELIMINARY SPEC

Part Number: WP7700C4QBC/D

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 OPEATION.
*SOLDERLESS MOUNTUING TECHNIQUE.
*LOW POWER CONSUMPTION.
*LOW THERMAL RESISTANCE.
*LOW PROFILE.
*PACKAGE IN TUBES FOR USE WITH AUTOMATIC INSERTION EQUIPMENT.
*RoHS COMPLIANT.

Benefits:

*Rugged Lighting Products.

*Electricity savings.

*Maintenance savings.

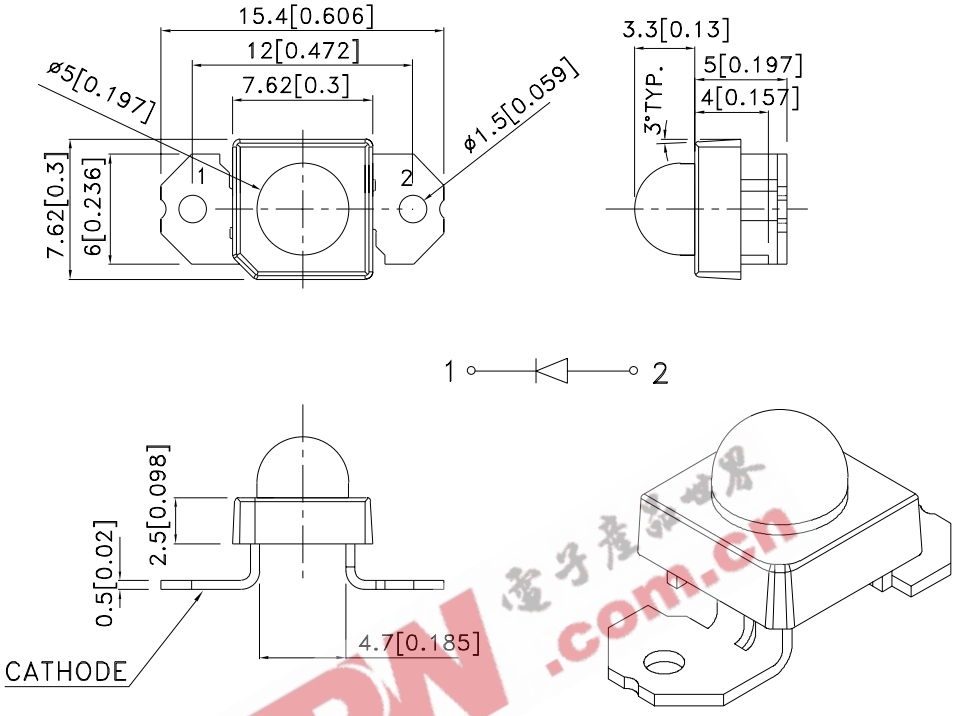
*Environmental Conformance.

Typical Applications:

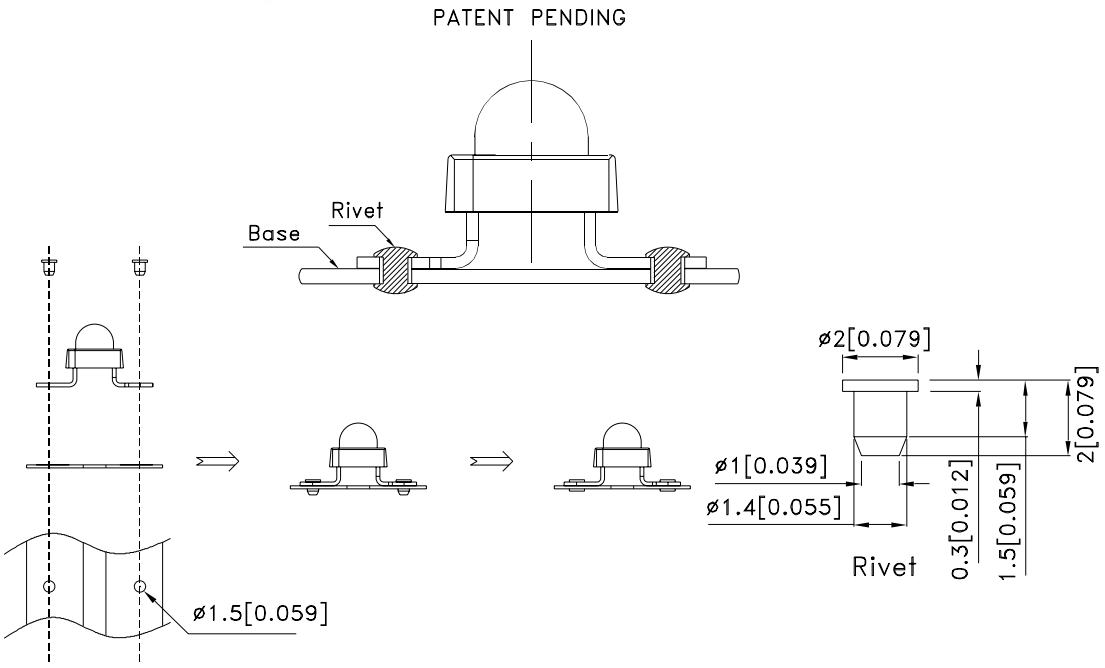
*Automotive Exterior Lighting.

*Solid State Lighting and Signaling.

Outline Drawings



Notes:
1. 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	QB/D	UNITS
DC Forward Current	30	mA
Power dissipation	126	mW
Reverse Voltage	5	V
Operating Temperature	-40 To +85	˚C
Storage Temperature	-55 To +85	˚C

Selection Guide

Part No.	LED COLOR	Iv(cd)[1] @30mA Min.	Typ.	Viewing Angle[2] 2θ1/2 Typ.
WP7700C4QBC/D	Blue (AlInGaN)	1.5	2.2	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
I_F=30mA 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.
QB/D	468	470	25

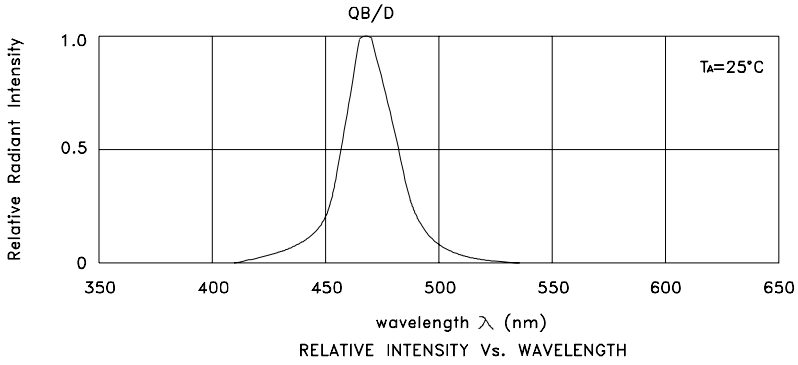
Note:
1.The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

Electrical Characteristics at TA=25°C

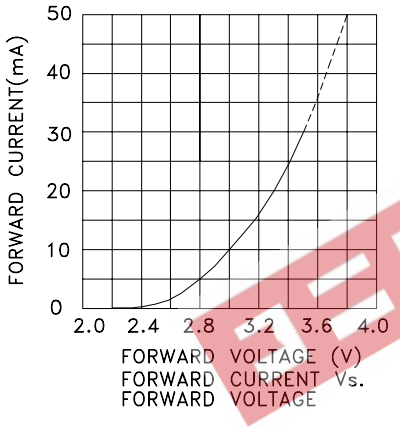
DEVICE TYPE	FORWARD VOLTAGE [1] V_F (VOLTS) @ I_F=30mA TYP.	MAX.	REVERSE CURRENT I_R (uA) @ V_R=5V MAX.	CAPACITANCE C (pF) @ V_F=0V F=1MHZ TYP.	THERMAL RESISTANCE Rθj -pin °C/W TYP.
QB/D	3.5	4.2	10	100	180

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

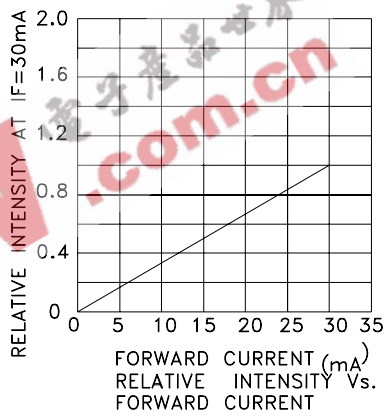
Figures



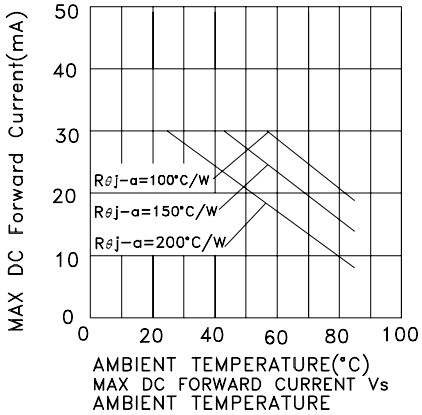
RELATIVE INTENSITY Vs. WAVELENGTH



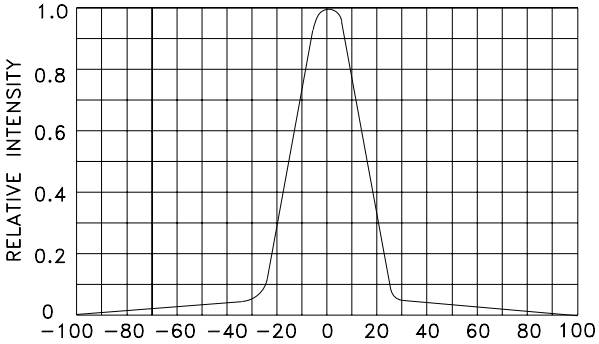
FORWARD CURRENT Vs.
FORWARD VOLTAGE



RELATIVE INTENSITY Vs.
FORWARD CURRENT

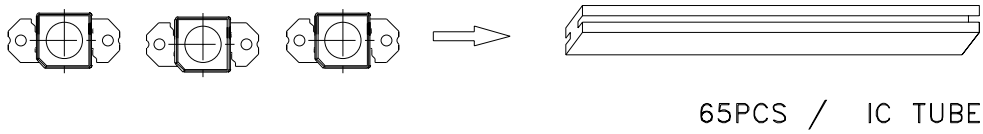


MAX DC FORWARD CURRENT Vs
AMBIENT TEMPERATURE

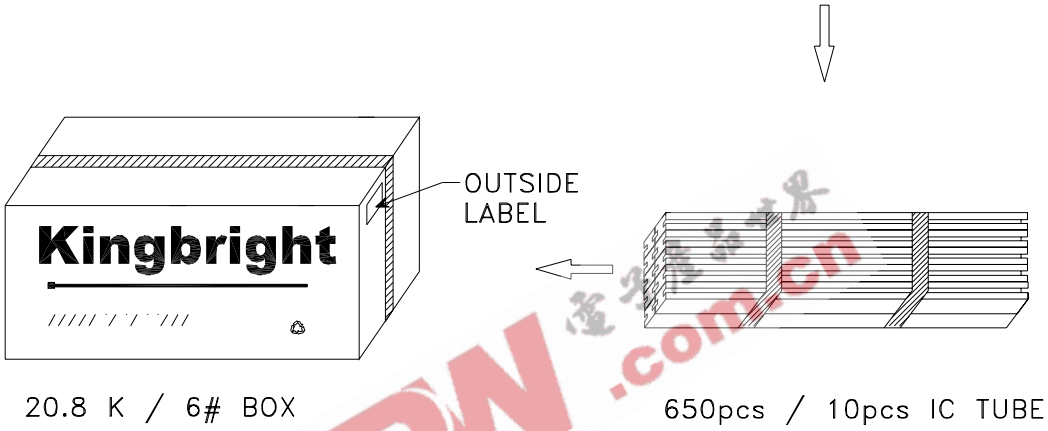


RELATIVE INTENSITY VS OFF AXIS ANGLE

PACKING & LABEL SPECIFICATIONS **WP7700C4QBC/D**



65PCS / IC TUBE



20.8 K / 6# BOX

650pcs / 10pcs IC TUBE