

SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP7678C2QBC/G



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.
- *Uniform color.
- *Low power consumption.
- *Low thermal resistance.
- *Low profile.
- *Packaged in tubes for use with automatic insertion equipment.
- *Soldering methods: wave soldering.
- *RoHS compliant.

Benefits:

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

Typical Applications:

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

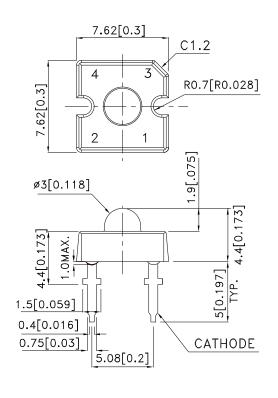


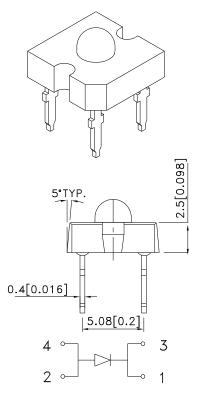


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Outline Drawings





Notes:

- 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/G	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
Lead Solder Temperature[1]	260°C For 5 Seconds	

1.1.5mm[0.06inch]below seating plane. NO Reflow soldering .

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Selection Guide

Part No.	LED COLOR	lv(cc @20 Min.		Φν(lm)[1] @30mA Typ.	Viewing Angle[2] 201/2 Typ.
WP7678C2QBC/G	Blue (InGaN)	2.2	3.3	1.8	40°

Notes:

Optical Characteristics at TA=25°C I_F=30mA 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.
QB/G	461	465	25

Note:

Electrical Characteristics at TA=25°C

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

Note:

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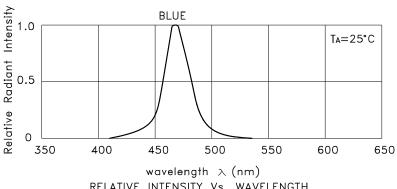
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^{1.}Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

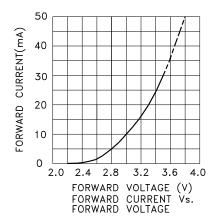
^{1.} The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

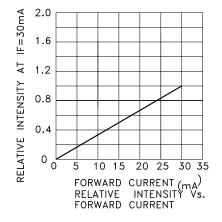
^{1.} Forward Voltage: +/-0.1V.

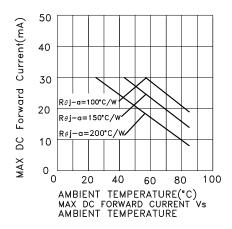
Figures

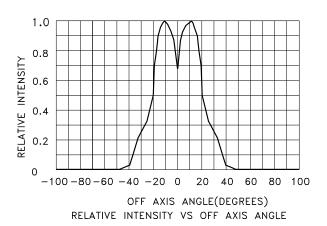


RELATIVE INTENSITY Vs. WAVELENGTH

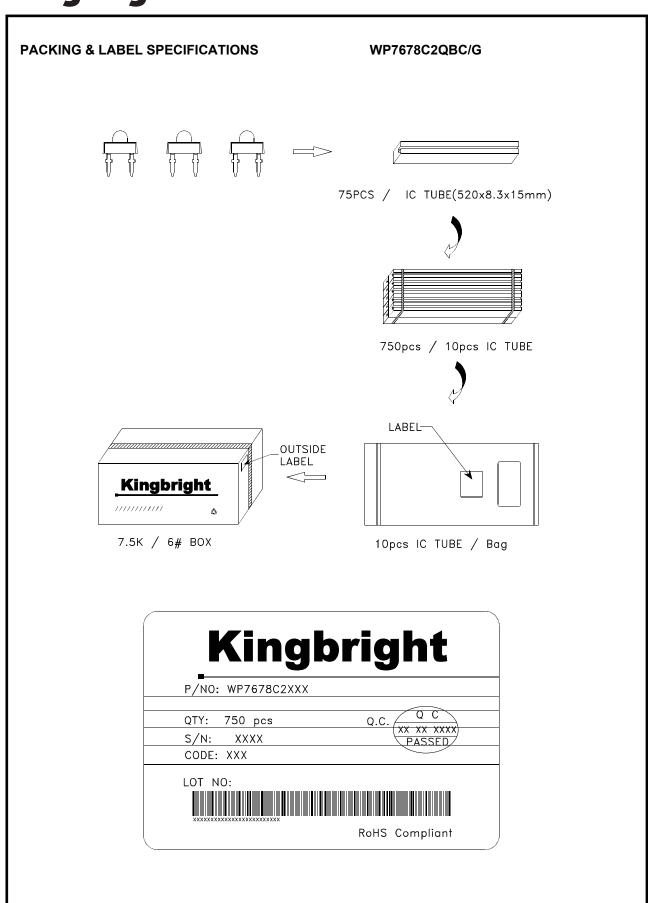








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