

SUPER FLUX LED LAMP

PRELIMINARY SPEC

Part Number: WP7678C2QBC/D



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.

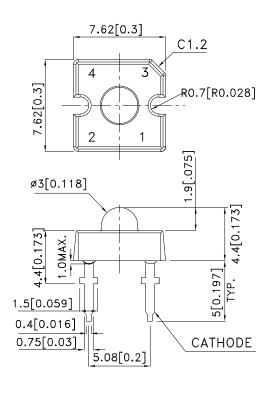


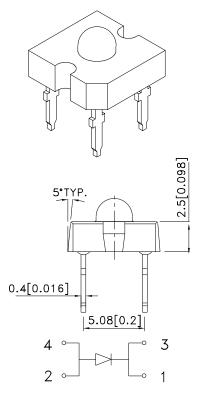


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 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.L.LI
 ERP: 1101011875

Outline Drawings





Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 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
Lead Solder Temperature[1]	260°C For 5 Seconds	

1.1.5mm[0.06inch]below seating plane.

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Selection Guide

Part No.	lv(cd)[1] LED COLOR @30mA Min. Typ.		Viewing Angle[2] 201/2 Typ.	
WP7678C2QBC/D	Blue (AllnGaN)	1.5	2.5	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/D	468	470	25

Note:

Electrical Characteristics at TA=25°C

DEVICE TYPE	VF (V	VOLTAGE [1] OLTS) @ 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.
QB/D	3.5	4.2	10	100	180

Note:

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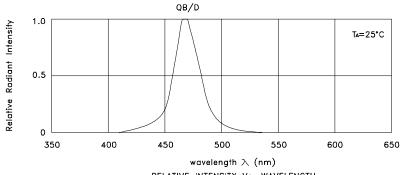
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^{1.}Luminous intensity is measured with an integrating sphere after the device has stabilized; Luminous Intensity / luminous flux: +/-15%. 2.61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

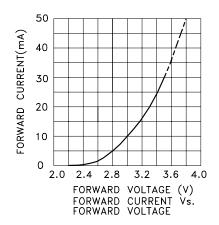
^{1.}The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device; Wavelength: +/-1nm.

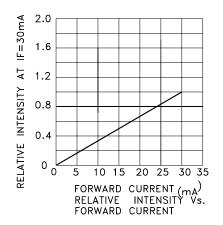
^{1.} Forward Voltage: +/-0.1V.

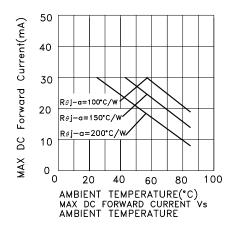
Figures

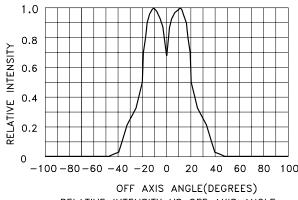


RELATIVE INTENSITY Vs. WAVELENGTH







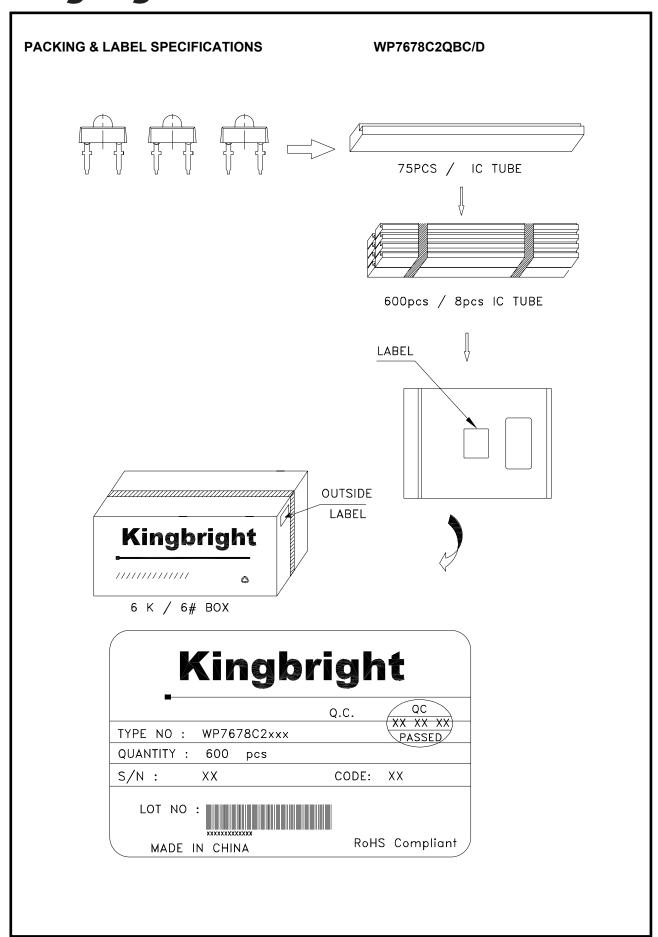


RELATIVE INTENSITY VS OFF AXIS ANGLE

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