

Part Number: KPTC-3212QBC-D-01 Blue

• The Blue source color devices are made with InGaN

• Electrostatic discharge and power surge could damage

• It is recommended to use a wrist band or anti-

electrostatic glove when handling the LEDs.

• All devices, equipments and machineries must be

Descriptions

the LEDs.

Light Emitting Diode.

electrically grounded.



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.2mmx1.25mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Moisture sensitivity level : level 3.
- Package: 2000pcs / reel .
- RoHS compliant.

Package Dimensions

3.2[0.126] 1.4[0.055] 25[0.049] 2 ---- 2 POLARITY MARK 0.25[0.01] 1[0.043] 0.5[0.02] 0.5[0.02] R0.25[0.01 2 POLARITY MARK Notes: All dimensions are in millimeters (inches). Tolerance is ±0.2(0.008") unless otherwise noted. 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. 4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAJ0841 APPROVED: WYNEC REV NO: V.3B CHECKED: Allen Liu DATE: OCT/16/2014 DRAWN: P.Cheng PAGE: 1 OF 5 ERP: 1203008544

Selection Guide

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Part No.	Dice	Iv (mcd) [2] Lens Type @ 20mA		·	Viewing Angle [1]
			Min.	Тур.	201/2
KPTC-3212QBC-D-01	Blue (InGaN)	Water Clear	40	80	140°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	460		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	465		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	I⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	l⊧=20mA
lr	Reverse Current	Blue		50	uA	VR=5V

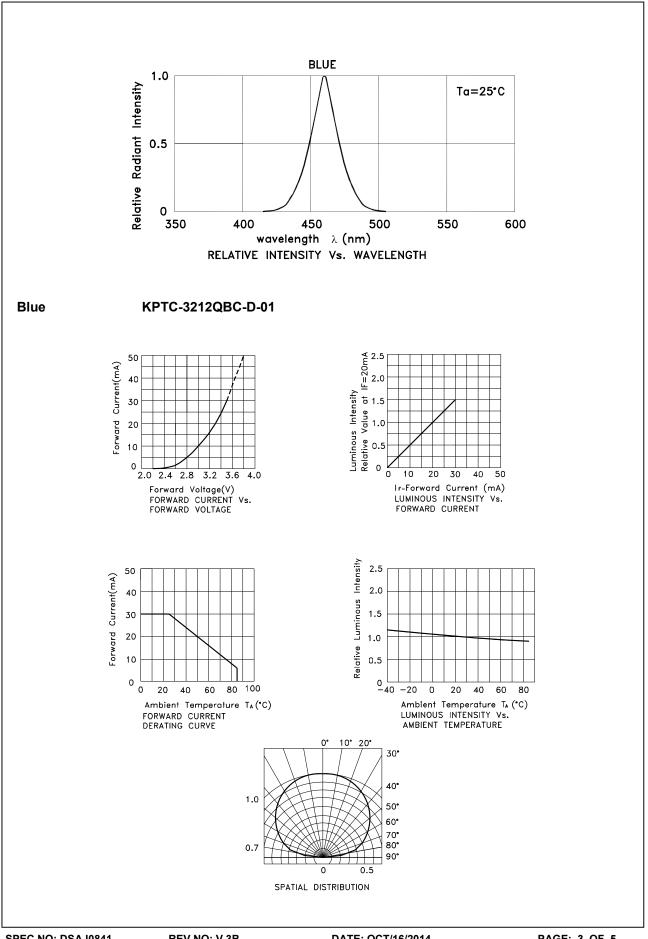
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

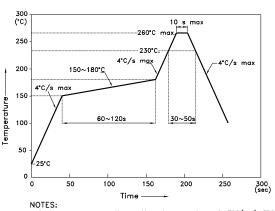


DATE: OCT/16/2014 DRAWN: P.Cheng

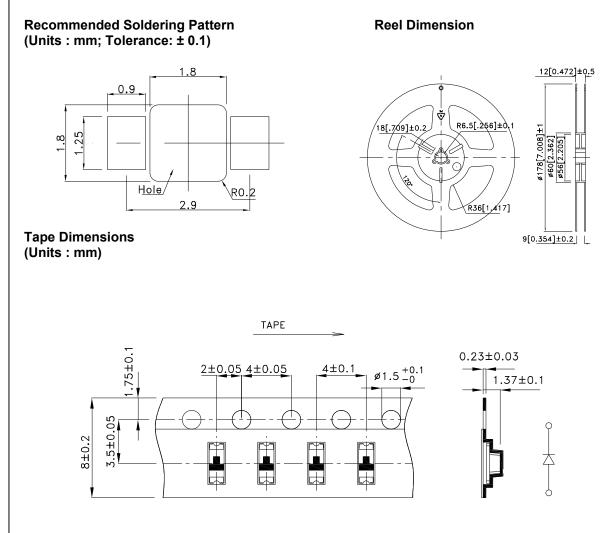
KPTC-3212QBC-D-01

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

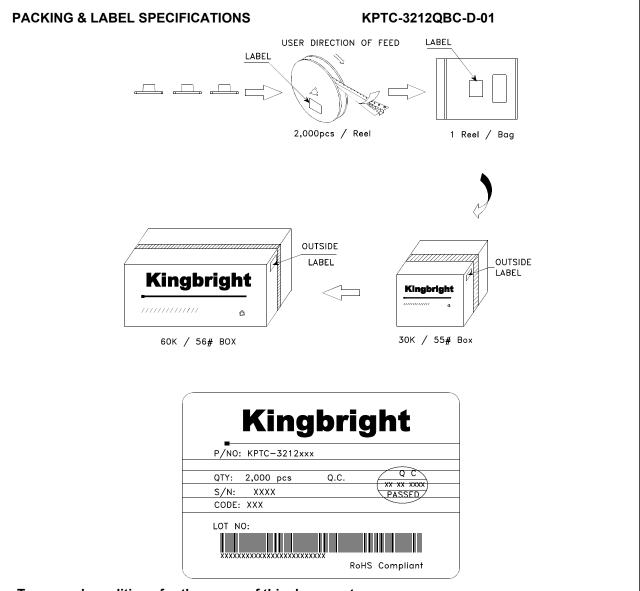
Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



DATE: OCT/16/2014 **DRAWN: P.Cheng**



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