3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTR-3216QBC-D Blue



ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Features

- 3.2mmx1.6mm SMT LED,1.05mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Vavrious colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

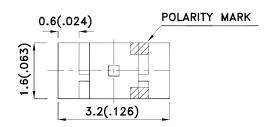
The Blue source color devices are made with AlGaInN on Sapphire Light Emitting Diode.

Static electricity and surge damage the LEDS.

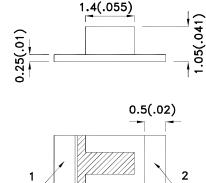
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

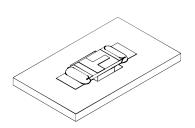
All devices, equipment and machinery must be electrically grounded.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.008")$ unless otherwise noted.
- Specifications are subject to change without notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.





PAGE: 1 OF 5 SPEC NO: DSAA8680 **REV NO: V.5** DATE: SEP/23/2009 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: J.Yu ERP: 1203002394

Selection Guide

Part No.	Part No. Dice Lo		lv (mcd) [2] @ 20mA		Viewing Angle [1]
		21	Min.	Тур.	201/2
KPTR-3216QBC-D	Blue (AlGalnN)	WATER CLEAR	50	100	120°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

	•					
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	IF=20mA
lr	Reverse Current	Blue		10	uA	V _R =5V

Notes:

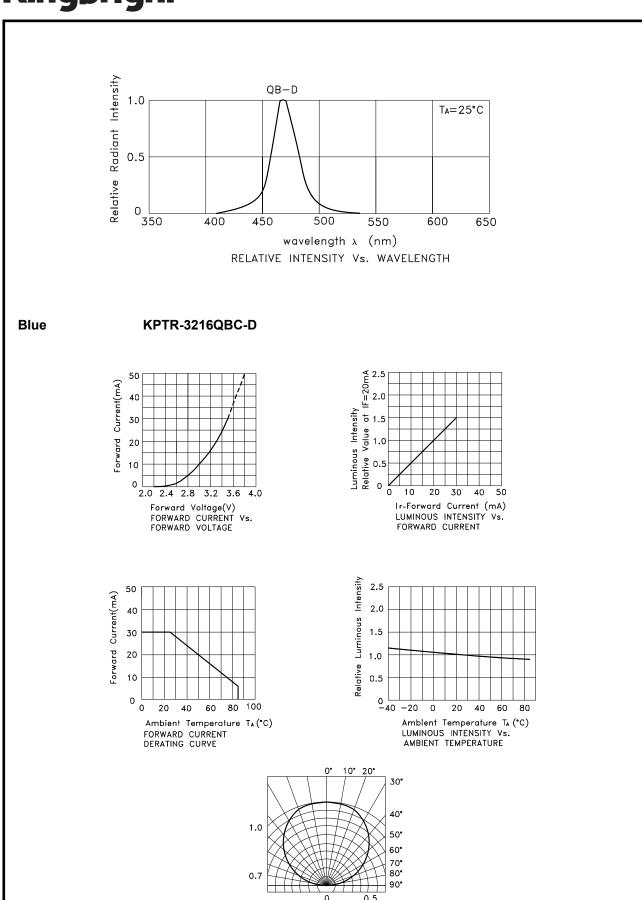
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

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

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

SPEC NO: DSAA8680 **REV NO: V.5 DATE: SEP/23/2009** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1203002394



 SPEC NO: DSAA8680
 REV NO: V.5
 DATE: SEP/23/2009
 PAGE: 3 OF 5

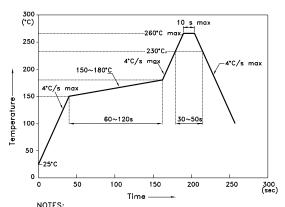
 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: J.Yu
 ERP: 1203002394

SPATIAL DISTRIBUTION

KPTR-3216QBC-D

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.



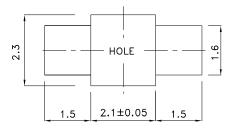
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

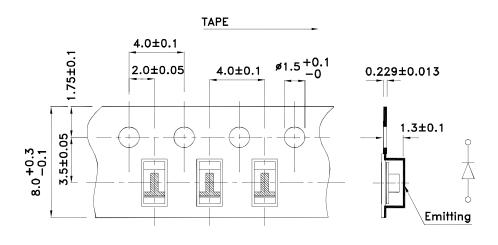
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)



SPEC NO: DSAA8680 **REV NO: V.5 DATE: SEP/23/2009** PAGE: 4 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1203002394

PACKING & LABEL SPECIFICATIONS KPTR-3216QBC-D USER DIRECTION OF FEED LABEL LABEL 2,000pcs / Reel 1 Reel / Bag OUTSIDE OUTSIDE LABEL LABEL **Kingbright Kingbright** 30K / 55# Box 60K / 56# BOX



SPEC NO: DSAA8680 APPROVED: WYNEC REV NO: V.5 CHECKED: Allen Liu DATE: SEP/23/2009 DRAWN: J.Yu PAGE: 5 OF 5 ERP: 1203002394