3.8x2.0mm DOME LENS SMD CHIP LED LAMP

Part Number: KPED-3820QBC-D Blue



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

Features

- 3.8mmx2.0mm SMT LED, 3.2mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 500pcs / reel.
- Moisture sensitivity level : level 3.
- · RoHS compliant.

Description

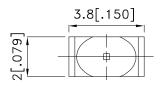
The Blue source color devices are made with InGaN Light Emitting Diode.

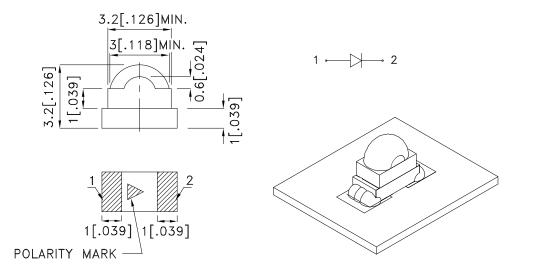
Static electricity and surge damage the LEDS.

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





Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.2(0.008") unless otherwise noted.

The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA7468 **APPROVED: WYNEC**

REV NO: V.14B **CHECKED: Allen Liu** DATE: MAR/18/2013 DRAWN: Y.Liu



Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
KPED-3820QBC-D	Blue (InGaN)	Water Clear	120	250	60 [°] (H) 35 [°] (V)				

Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.
3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	evice Typ.		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	I⊧=20mA	
IR	Reverse Current	Blue		50	uA	VR = 5V	

Notes:

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

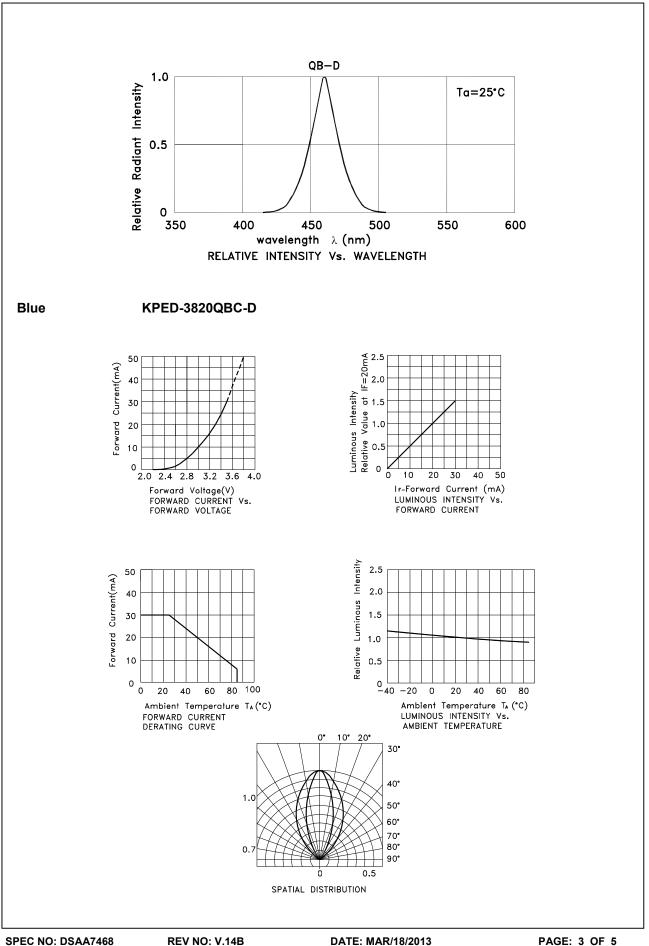
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

5					
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	-40°C To +85°C			

Note:

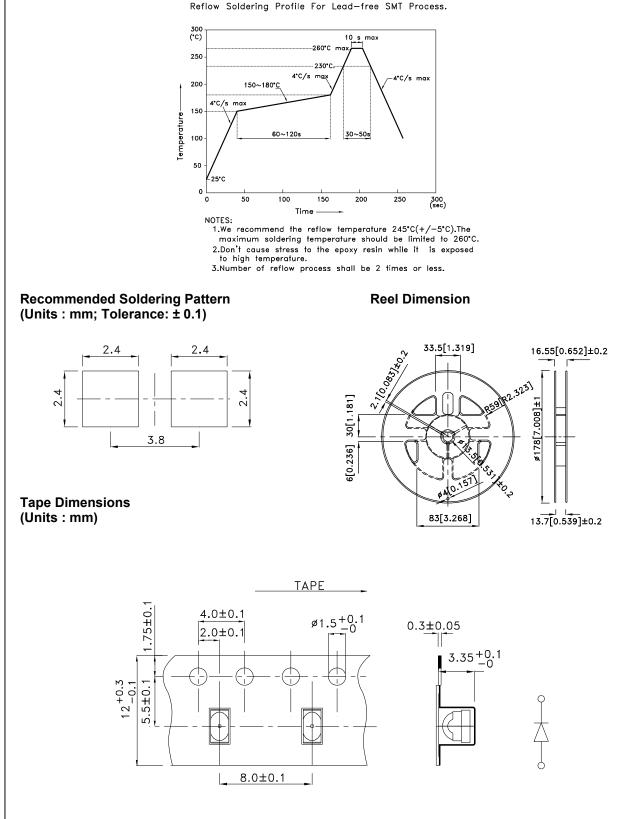
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPED-3820QBC-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.



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