

Part Number: KPED-3528VBC-D

Blue



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- Single color.
- Suitable for all SMT assembly and solder process.
- Ideal for backlighting.
- Available on tape and reel.
- Package: 500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

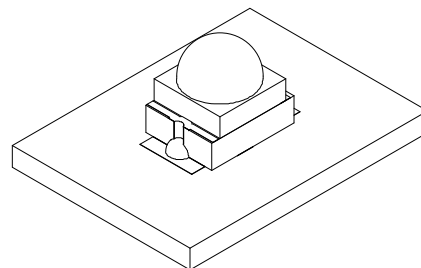
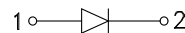
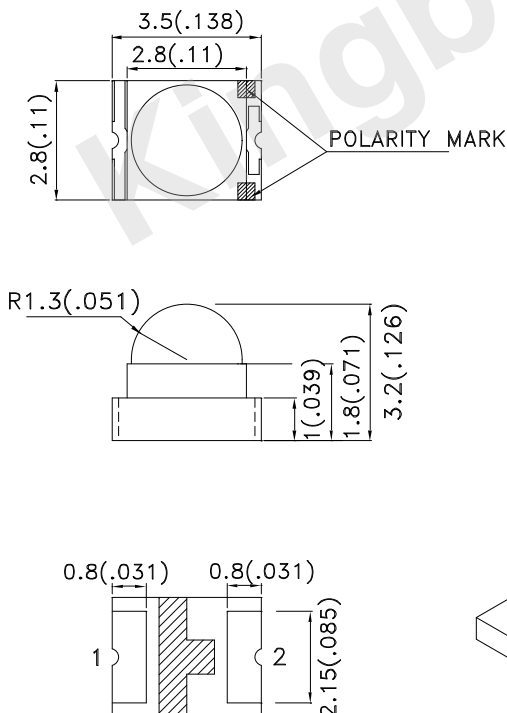
The Blue source color devices are made with InGaN Light Emitting Diode.

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 $\pm 0.2(0.008)$ 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.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KPED-3528VBC-D	Blue (InGaN)	Water Clear	500	750	40°

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	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	465		nm	If=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	If=20mA
Δλ1/2	Spectral Line Half-width	Blue	22		nm	If=20mA
C	Capacitance	Blue	100		pF	Vf=0V;f=1MHz
Vf [2]	Forward Voltage	Blue	3.3	4	V	If=20mA
Ir	Reverse Current	Blue		50	uA	Vr=5V

Notes:

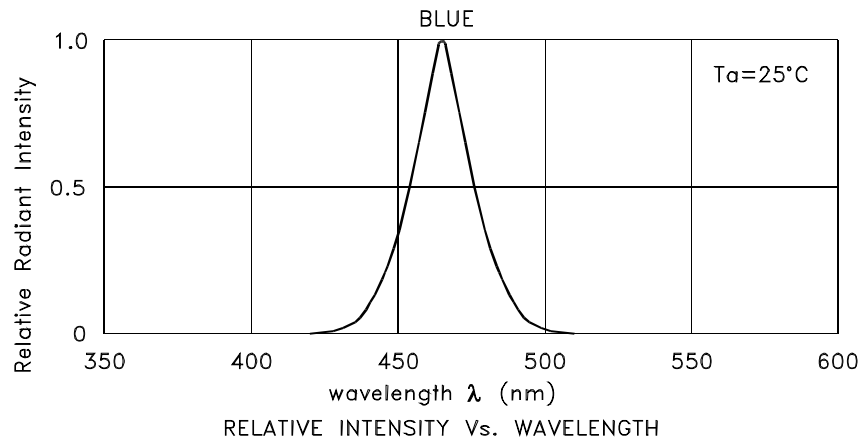
- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

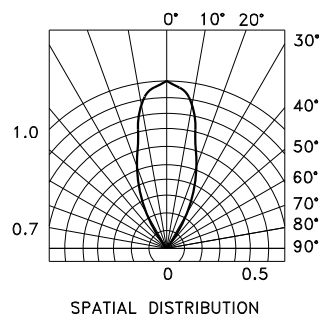
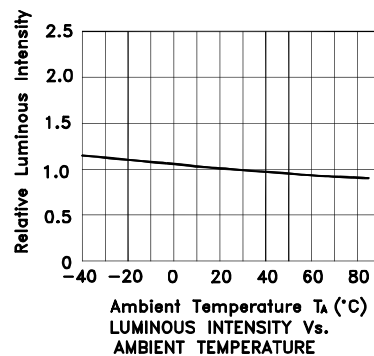
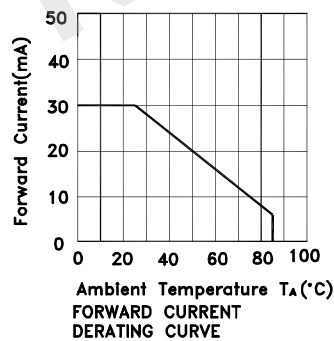
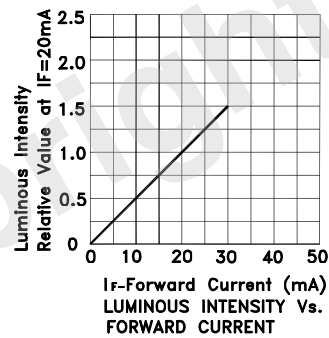
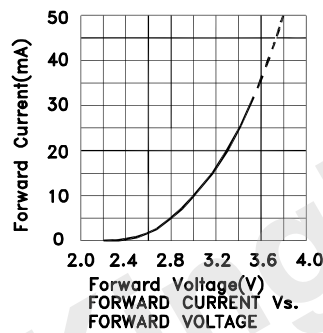
Note:

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



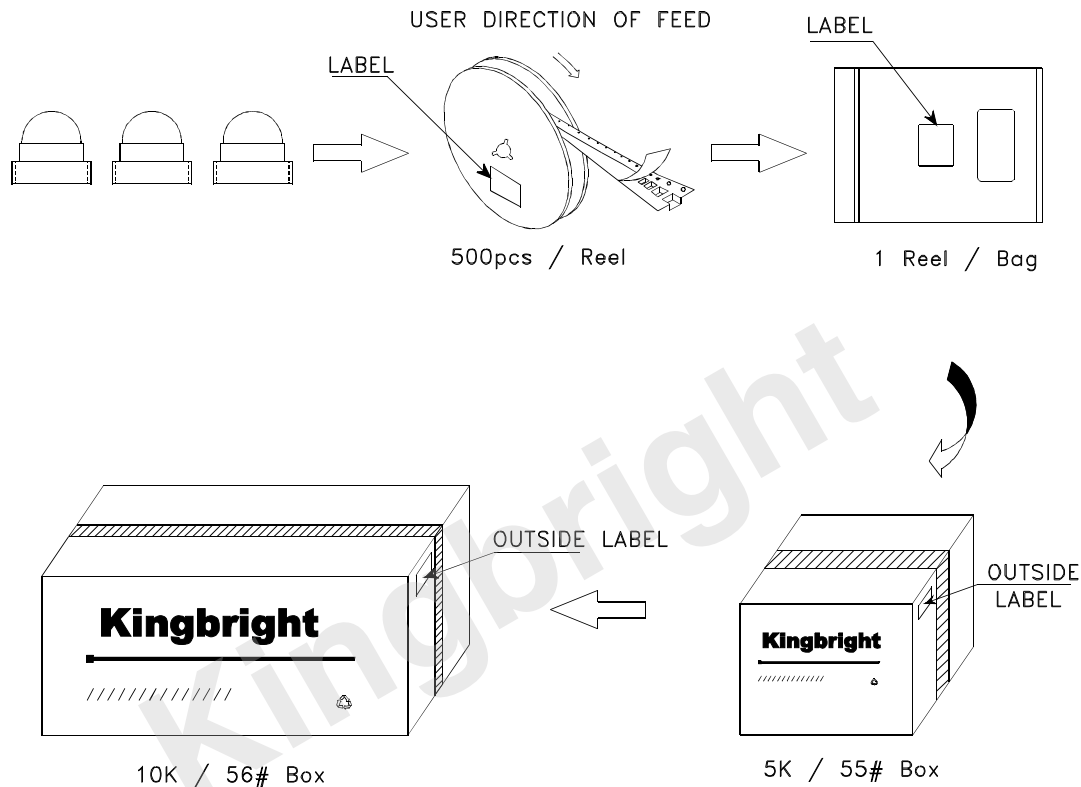
Blue


KPED-3528VBC-D



PACKING & LABEL SPECIFICATIONS

KPED-3528VBC-D



Kingbright							
P/NO: KPED-3528xxx							
QTY: 500 pcs	Q.C. <table border="1"><tr><td>Q</td><td>C</td></tr><tr><td>XX</td><td>XX XX</td></tr><tr><td colspan="2">PASSED</td></tr></table>	Q	C	XX	XX XX	PASSED	
Q	C						
XX	XX XX						
PASSED							
S/N: XXXX							
CODE: XXX							
LOT NO:							
							
RoHS Compliant							

Detailed application notes are listed on our website.
http://www.kingbright.com/application_notes