SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520VBC-D09

Blue



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

Features

- Subminiature package.
- Z-bend lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package : 1000pcs / reel.
- · RoHS compliant.

Description

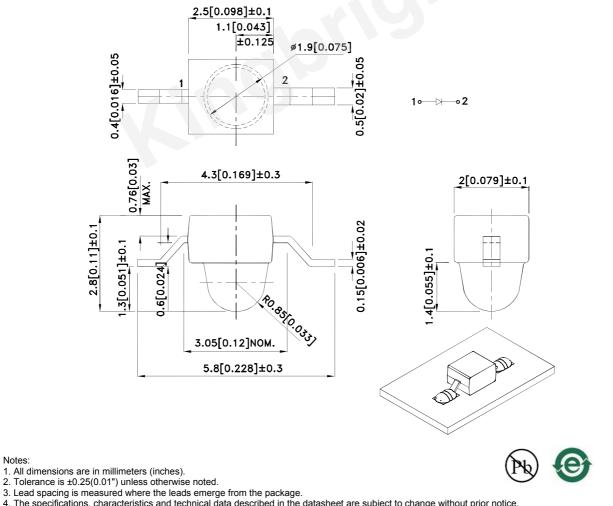
The Blue source color devices are made with InGaN Light Emitting Diode.

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



4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

5. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAM9343 **APPROVED: WYNEC**

Notes:

REV NO: V.1B CHECKED: Allen Liu

DATE: MAR/28/2013 DRAWN: Y.Liu

PAGE: 1 OF 5 ERP: 1202002810

Selection Guide

Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
KM2520VBC-D09	Blue (InGaN)	Water Clear	1000	1600	20°				

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	465		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	22		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:

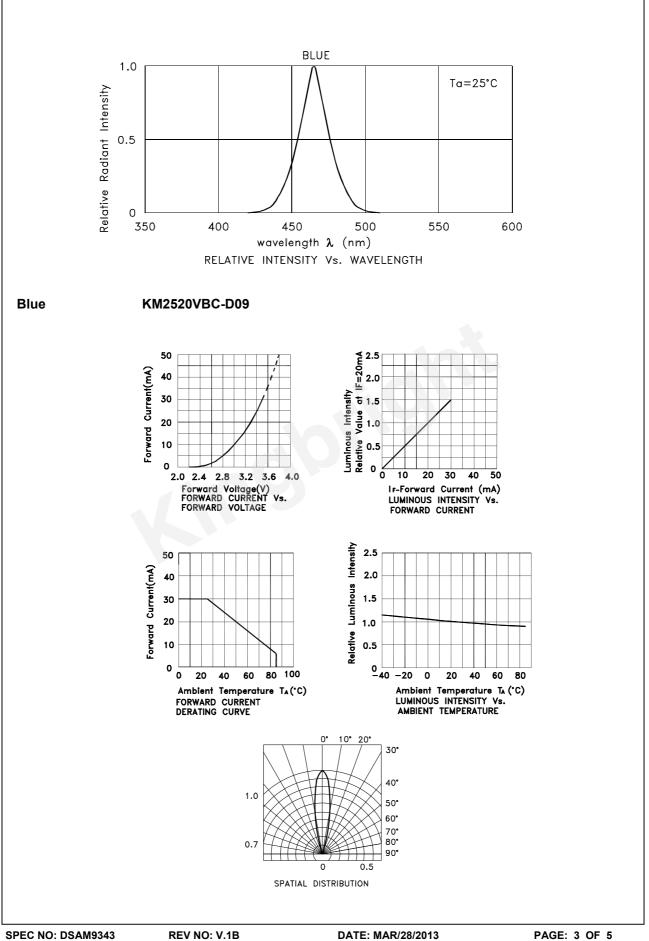
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

Absolute Maximum Ratings at TA=25°C

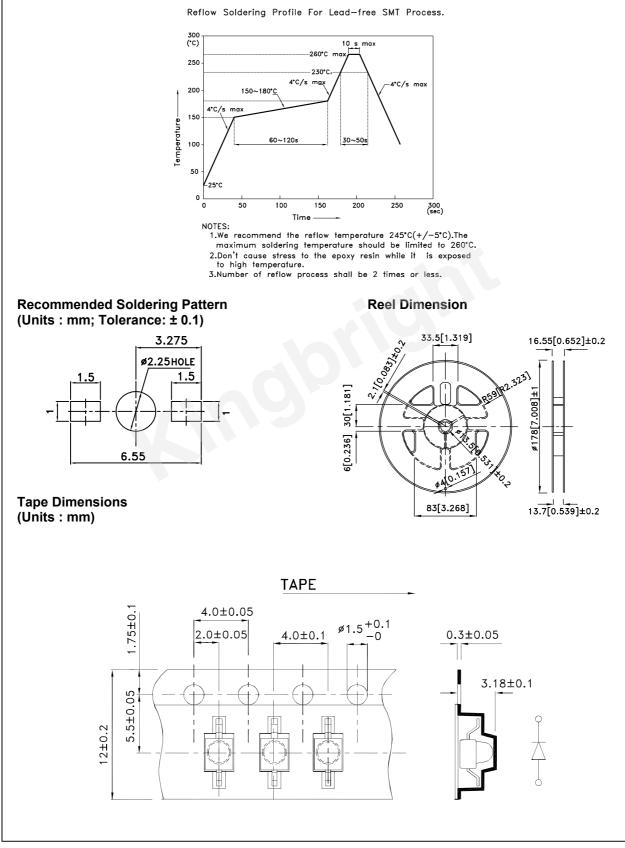
Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

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



KM2520VBC-D09

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.



REV NO: V.1B CHECKED: Allen Liu DATE: MAR/28/2013 DRAWN: Y.Liu PAGE: 4 OF 5 ERP: 1202002810

