PRELIMINARY SPEC

3.5x2.0mm SMD CHIP LED LAMP

Part Number: KPK-3520PBC-A

Blue



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.5mmX2.0mm SMT LED, 1.3mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

Description

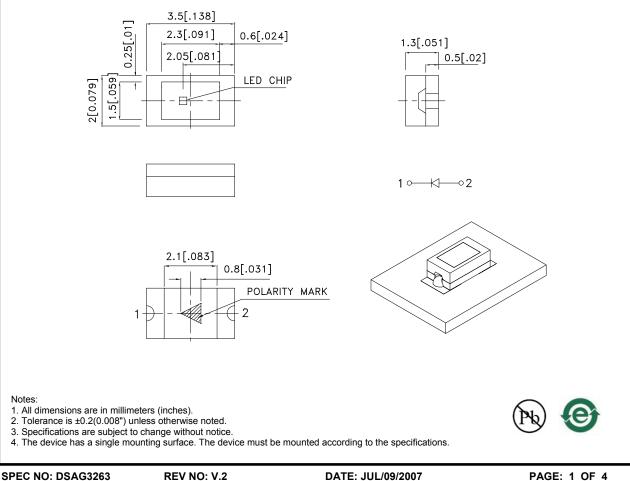
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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



APPROVED: WYNEC

CHECKED: Allen Liu

DATE: JUL/09/2007 DRAWN: Y.L.LI PAGE: 1 OF 4 ERP: 1204000607

Selection Guide

Part No.	Dice	Lens Type Iv (mcd) [2] @ 20mA		·	Viewing Angle [1]	
			Min.	Тур.	201/2	
KPK-3520PBC-A	Blue (InGaN)	WATER CLEAR	18	60	120°	

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
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	21		nm	IF=20mA	
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Blue	3.2	4	V	I⊧=20mA	
lr	Reverse Current	Blue		10	uA	Vr=5V	

Notes:

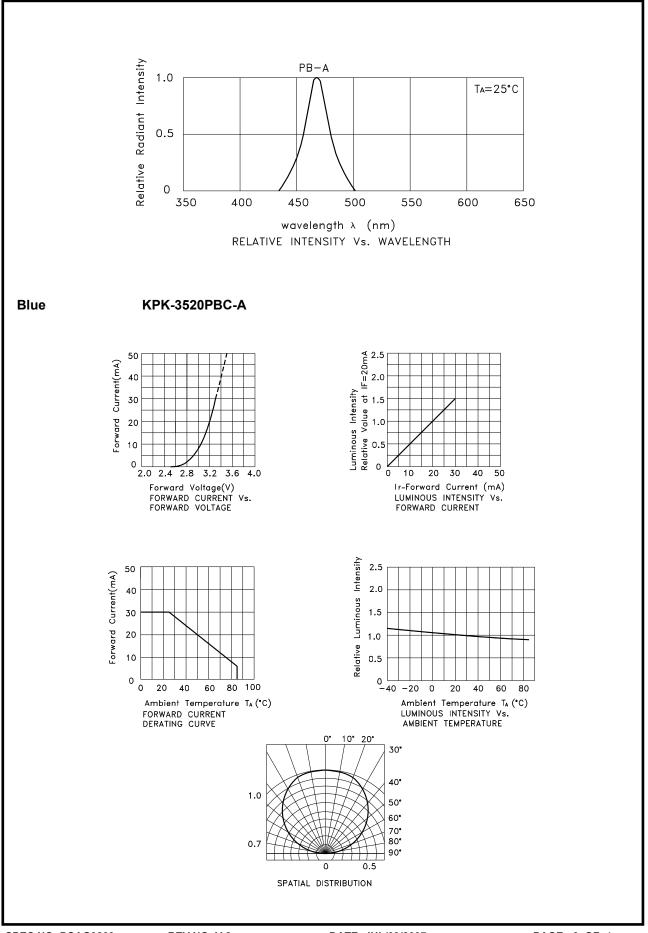
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

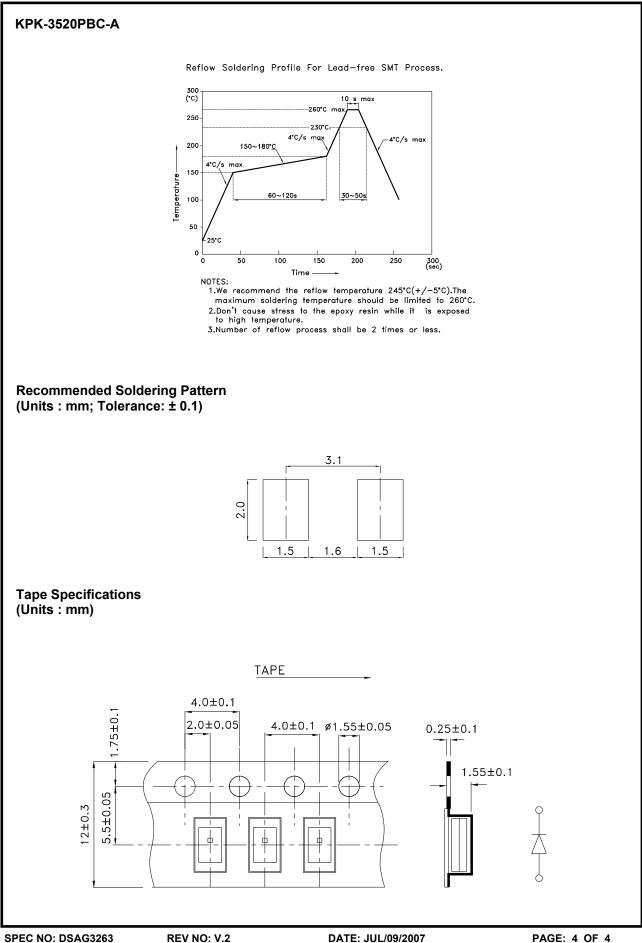
Absolute Maximum Ratings at TA=25°C

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.





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