### 3.2x1.6mm SMD CHIP LED LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES AP3216MBC

BLUE

### Features

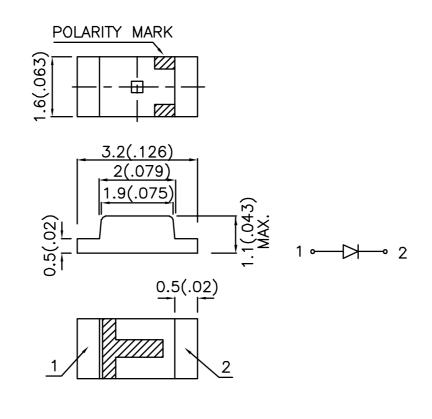
•3.2mmx1.6mm SMT LED, 1.1mm THICKNESS.
•LOW POWER CONSUMPTION.
•WIDE VIEWING ANGLE.
•IDEAL FOR BACKLIGHT AND INDICATOR.
•VARIOUS COLORS AND LENS TYPES AVAILABLE.
•PACKAGE : 2000PCS / REEL.
•RoHS COMPLIANT.

#### Description

The Blue source color devices are made with GaN 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



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.2 (0.008")$  unless otherwise noted.

3. Specifications are subject to change without notice.

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	201/2			
AP3216MBC	BLUE (GaN)	WATER CLEAR	4	10	120°			

Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

### Electrical / Optical Characteristics at TA=25°C

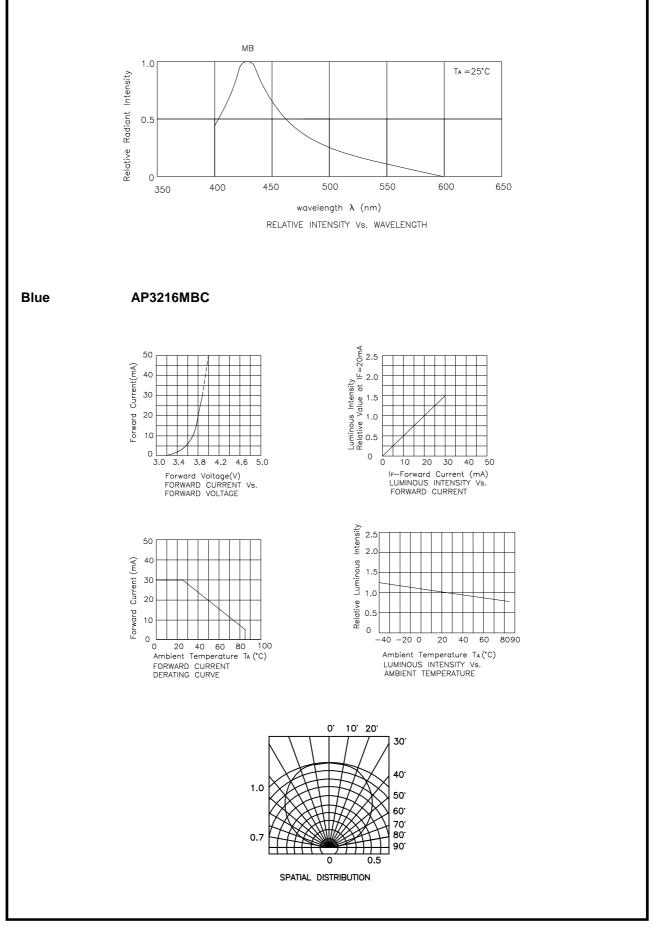
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	430		nm	I <sub>F</sub> =20mA
λD	Dominant Wavelength	Blue	466		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	Blue	60		nm	I <sub>F</sub> =20mA
С	Capacitance	Blue	100		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Blue	3.8	4.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Blue		10	uA	$V_R = 5V$

### Absolute Maximum Ratings at TA=25°C

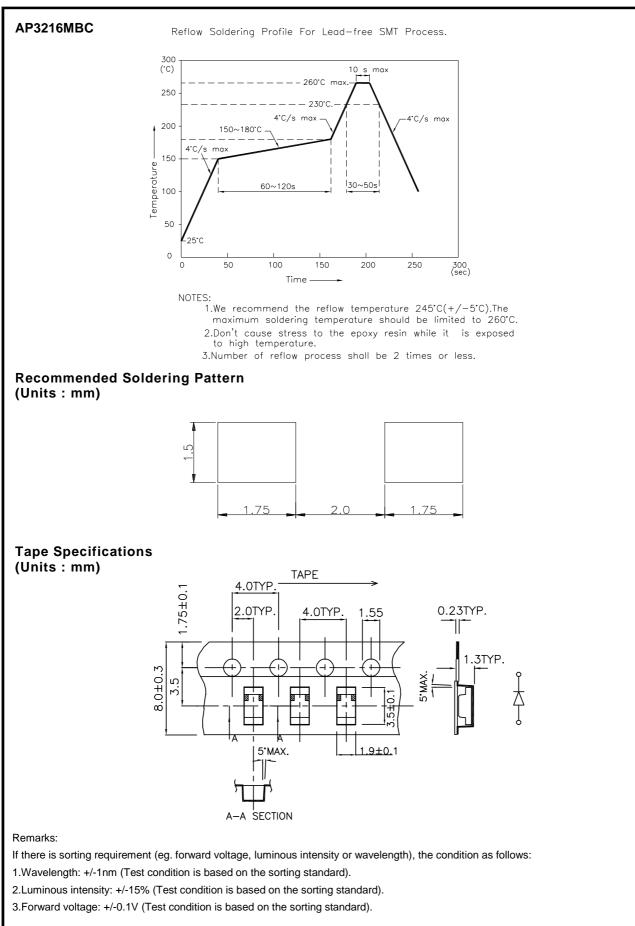
Parameter	Blue	Units	
Power dissipation	105	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

Note:

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



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