3.2x1.6mm SMD CHIP LED LAMP

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES APTD3216MBC

BLUE

Features

•3.2mmX1.6mm SMT LED, 1.8mm 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.

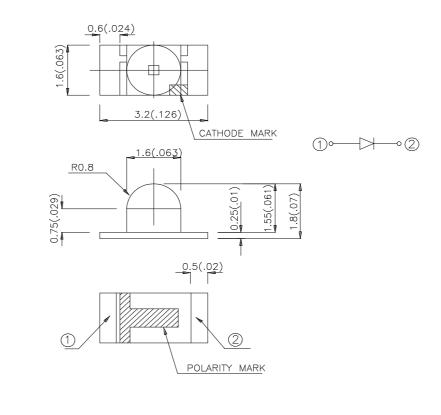
Static electricity and surge damage the LEDS.

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 $\pm 0.2 (0.0079")$ unless otherwise noted.

3. Specifications are subject to change without notice.

SPEC NO: DSAD1052 APPROVED: J. Lu REV NO: V.4 CHECKED: Allen Liu DATE: MAR/11/2005 DRAWN: W.J.ZHU PAGE: 1 OF 4 ERP:1203002234

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	2 0 1/2			
APTD3216MBC	BLUE (GaN)	WATER CLEAR	18	45	40 °			

Note:

1. θ 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

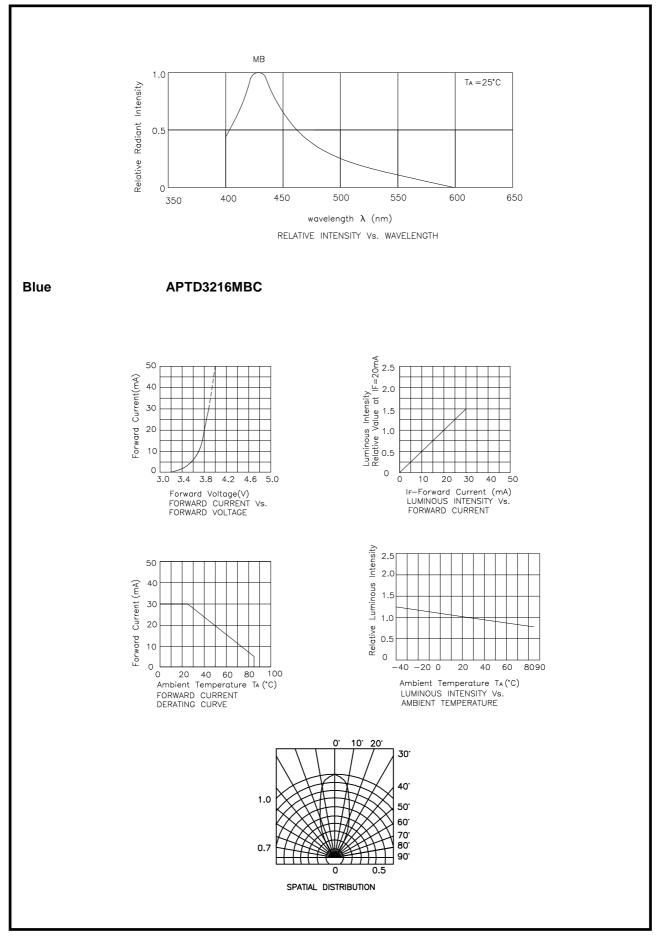
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	430		nm	IF=20mA
λD	Dominant Wavelength	Blue	466		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	60		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	3.8	4.5	V	IF=20mA
IR	Reverse Current	Blue	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

Absolute Maximum Ratings at TA=25°C

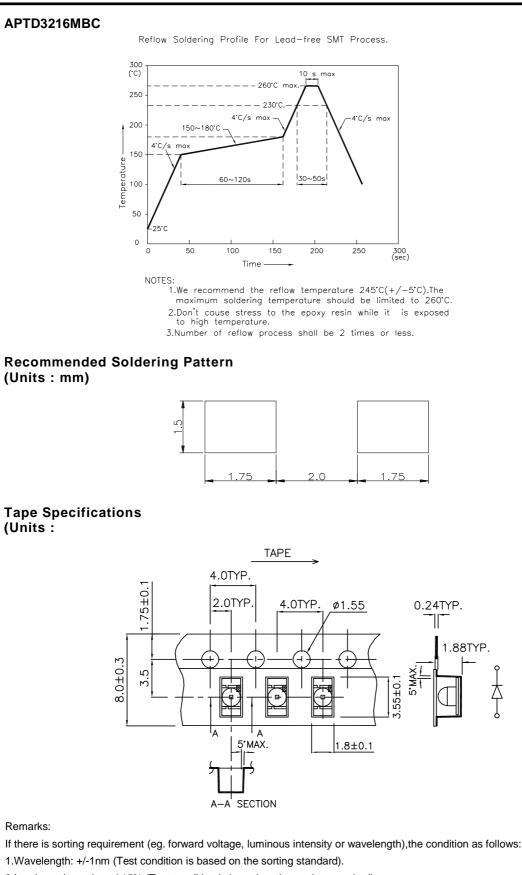
Parameter	Blue	Units	
Power dissipation	105	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

Note:

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



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2.Luminous intensity: +/-15% (Test condition is based on the sorting standard).

3. Forward voltage: +/-0.1V (Test condition is based on the sorting standard).

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