1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608QBC/D Blue

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmX0.8mm SMT LED, 0.75mm 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 3.
- RoHS compliant.

Description

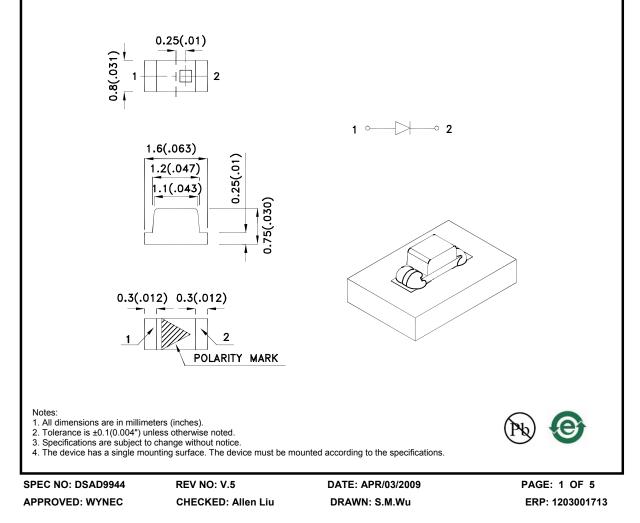
The Blue source color devices are made with AlGaInN on Sapphire Light Emitting Diode.

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



Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
APT1608QBC/D	Blue (AlGalnN)	WATER CLEAR	50	100	120°				

Notes:

1. 61/2 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	l⊧=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	l⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	l⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	l⊧=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

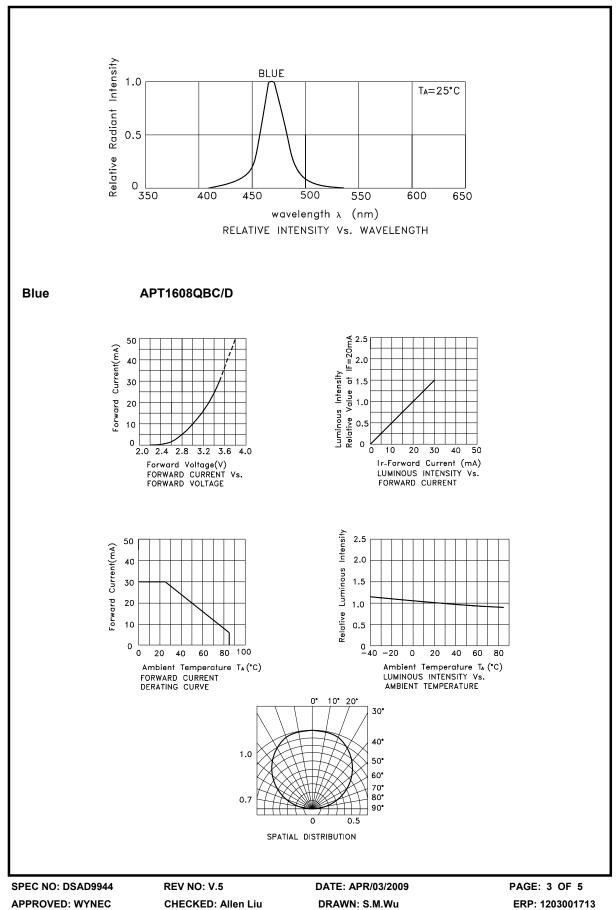
Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

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

SPEC NO: DSAD9944 APPROVED: WYNEC

REV NO: V.5 CHECKED: Allen Liu DATE: APR/03/2009 DRAWN: S.M.Wu

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APT1608QBC/D

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.

Reflow Soldering Profile For Lead-free SMT Process. 300 (°C) 10 s max 260°C max 250 230°C 4°C/s 4°C/s max 200 150~180°<u>C</u> 4°C/s 150 Temperature 60~120 30~50s 100 50 25*0 0 0 50 100 150 200 250 300 (sec) Time NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less. **Recommended Soldering Pattern** (Units : mm; Tolerance: ± 0.1) 0.8 0.8 0.85 0.8 **Tape Dimensions** (Units : mm) TAPE 4.0±0.1 1.75±0. $4.0\pm0.1 \ \text{ø}1.5^{+0.1}_{-0}$ 2.0±0.05 0.254±0.02 0.95±0.05 8.0^{+0.3} -0.1 5±0.05 5°MAX. 8±0.05 ы. SMD LED 5°MAX 0.90±0.05 A-A SECTION SPEC NO: DSAD9944 REV NO: V.5 DATE: APR/03/2009 PAGE: 4 OF 5

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