

Part Number: APTD1608QBC/D



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmX0.8mm SMT LED, 0.95mm 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 InGaN Light Emitting Diode.

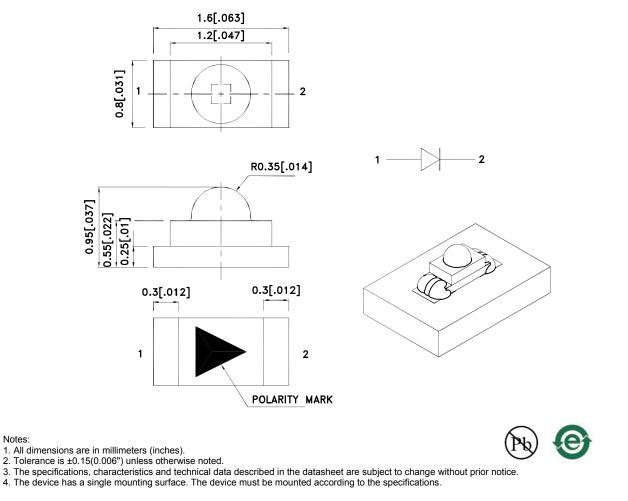
Blue

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



SPEC NO: DSAJ7593 APPROVED: WYNEC REV NO: V.6B CHECKED: Allen Liu DATE: JAN/29/2013 DRAWN: Y.Liu PAGE: 1 OF 5 ERP: 1203009945

Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTD1608QBC/D	Blue (InGaN)	Water Clear	80	200	40°

Notes:

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%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ. Max.		Units	Test Conditions	
λpeak	Peak Wavelength	Blue	460		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Blue	465		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	Blue	25		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:

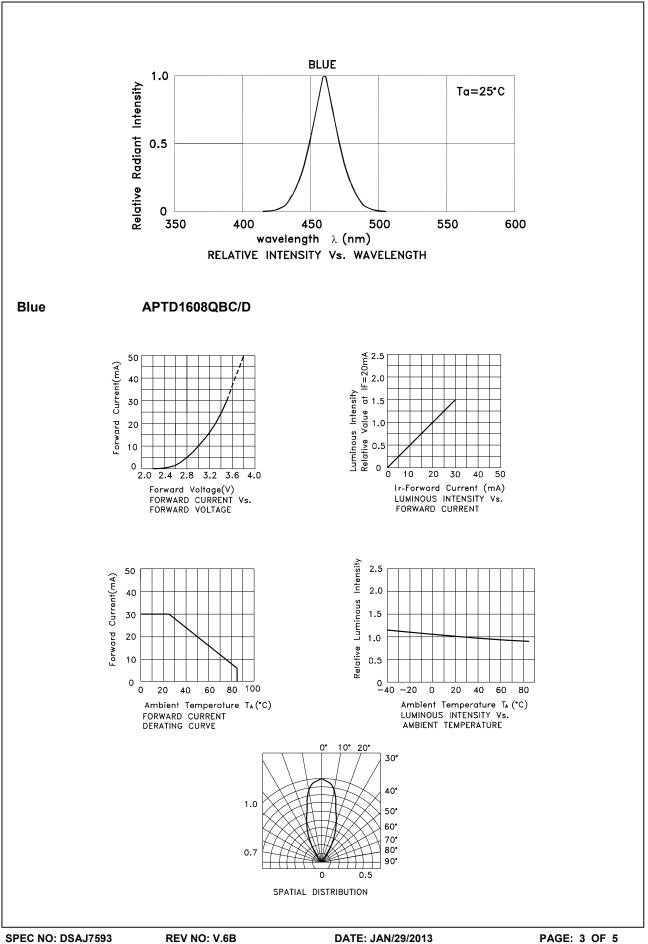
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

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

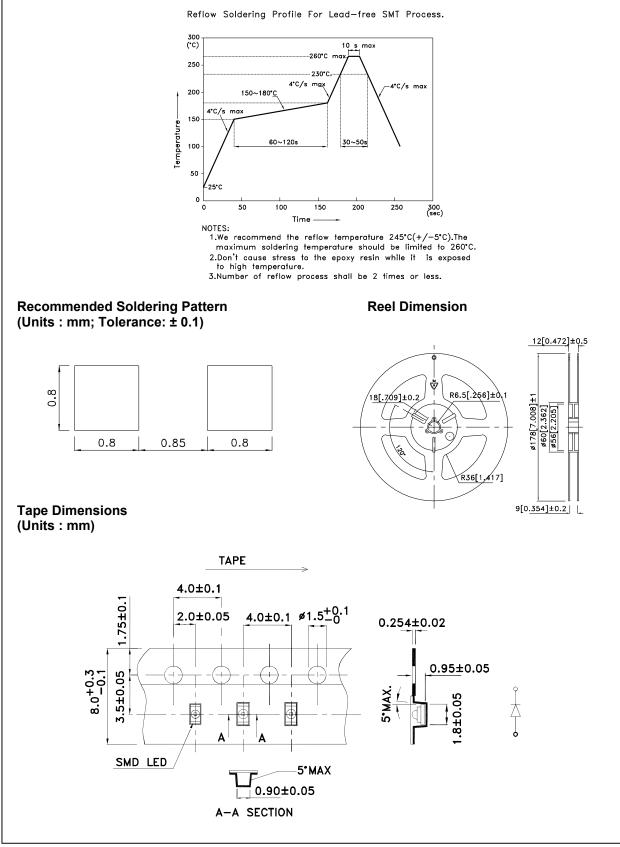
Note:

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



APTD1608QBC/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.



REV NO: V.6B CHECKED: Allen Liu DATE: JAN/29/2013 DRAWN: Y.Liu PAGE: 4 OF 5 ERP: 1203009945

