PRELIMINARY SPEC

2.0x1.25mm SMD CHIP LED LAMP

Part Number: APT2012QBC/G

Blue



ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 2.0mm x1.25mm 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

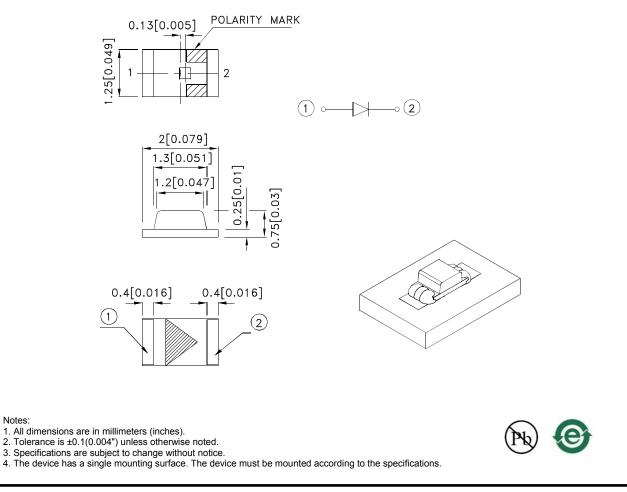
The Blue source color devices are made with InGaN Light Emitting Diode.

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:

DATE: OCT/16/2009 DRAWN: J.Yu

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APT2012QBC/G	Blue (InGaN)	WATER CLEAR	70	180	120°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak 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	461		nm	IF=20mA	
λD [1]	Dominant Wavelength	Blue	465		nm	IF=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	
lr	Reverse Current	Blue		10	uA	Vr=5V	

Notes:

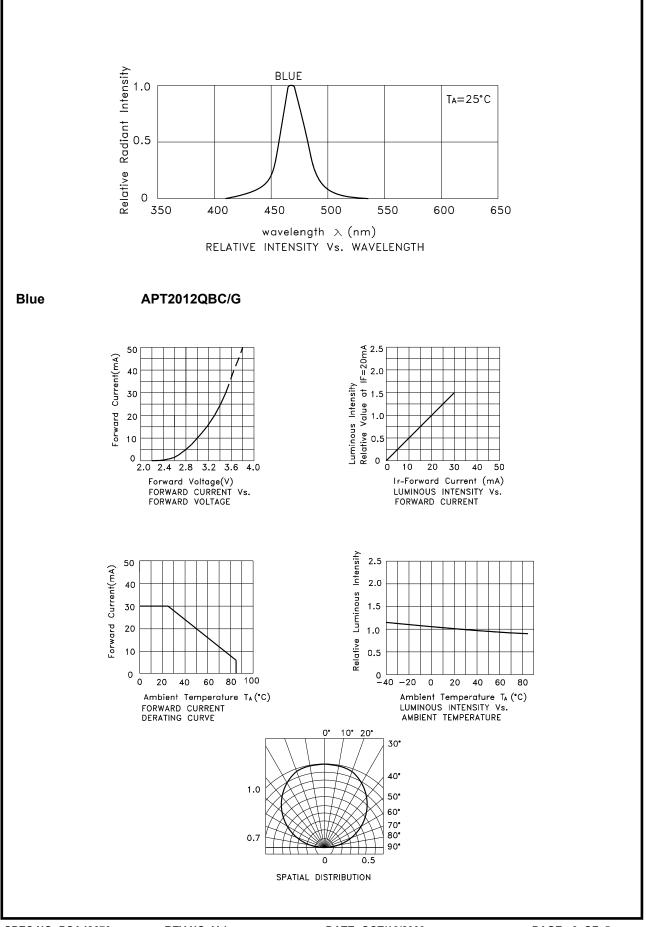
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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:

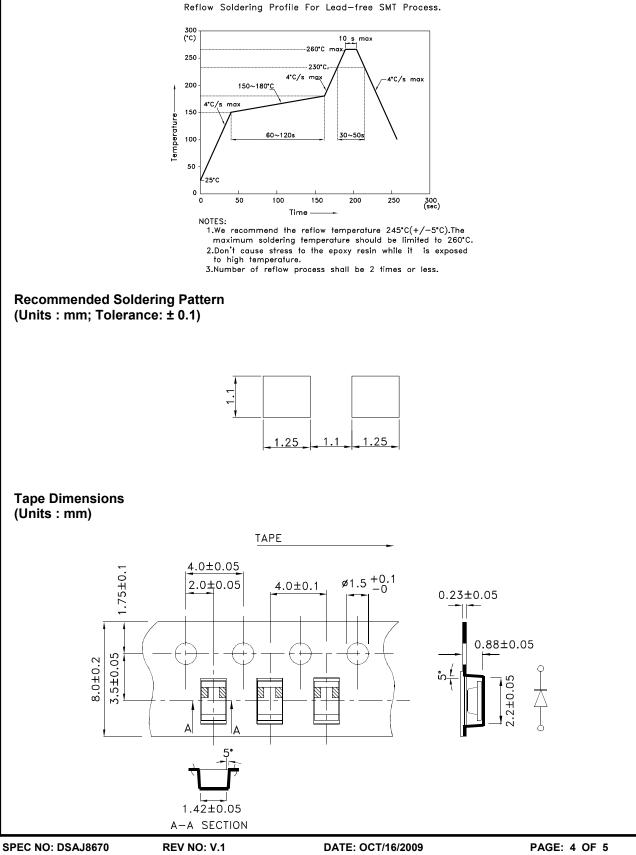
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APT2012QBC/G

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.



APPROVED: WYNEC

CHECKED: Allen Liu

DRAWN: J.Yu

ERP: 1203008444

