PRELIMINARY SPEC

SUBMINIATURE SOLID STATE LAMP

Blue

Part Number: AM27PBC/A03

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- SUBMINIATURE PACKAGE.
- GULL WING.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.
- PACKAGE :1000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.

Description

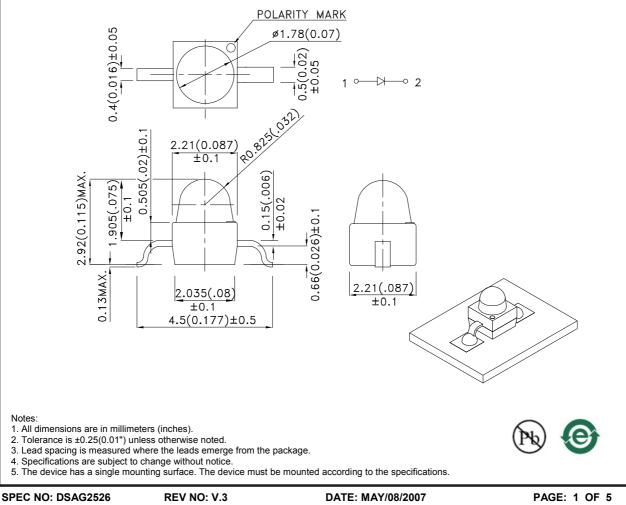
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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



APPROVED: WYNEC

CHECKED: Allen Liu

DATE: MAY/08/2007 DRAWN: Y.L.LI PAGE: 1 OF 5 ERP: 1202001453

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM27PBC/A03	Blue (InGaN)	WATER CLEAR	110	250	20°

Notes:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. 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	I⊧=20mA	
λD [1]	Dominant Wavelength	Blue	470		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	Blue	21		nm	I⊧=20mA	
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Blue	3.2	4	V	I⊧=20mA	
IR	Reverse Current	Blue		10	uA	VR=5V	

Notes:

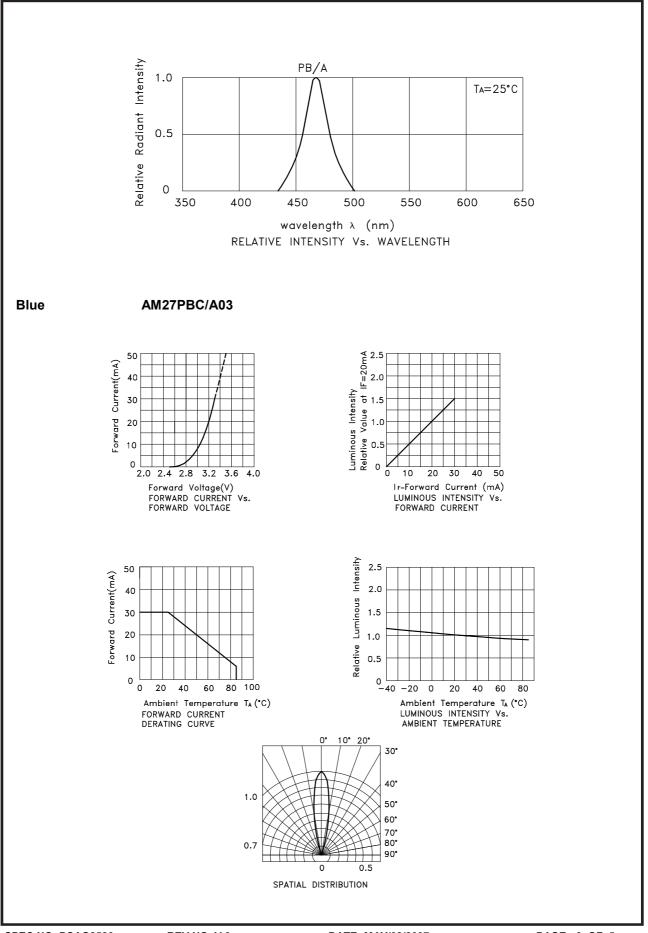
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

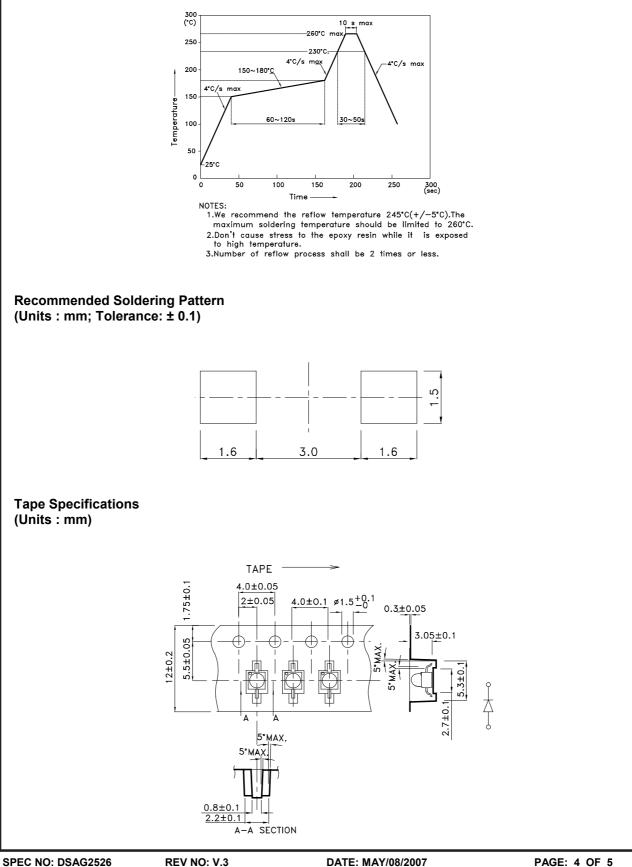
Note:

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





Reflow Soldering Profile For Lead-free SMT Process.



REV NO: V.3 CHECKED: Allen Liu

DRAWN: Y.L.LI

