#### SUBMINIATURE SOLID STATE LAMP



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

AM27MBCK09

BLUE

#### Features

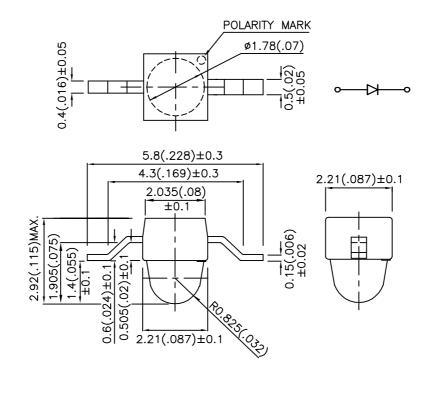
- SUBMINIATURE PACKAGE.
- WIDE VIEWING ANGLE.
- Z-BEND LEAD.
- •LONGLIFE-SOLID STATE RELIABILITY.
- •LOW PACKAGE PROFILE.
- PACKAGE :1000PCS / REEL.
- RoHS COMPLIANT.

### 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 ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

#### SPEC NO: DSAD1339 APPROVED: J. Lu

#### REV NO: V.3 CHECKED: Allen Liu

DATE: MAR/07/2005 DRAWN: W.J.ZHU PAGE: 1 OF 4 ERP:1202000281

Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle				
		Lens Type	Min.	Тур.	2 0 1/2				
AM27MBCK09	BLUE (GaN)	WATER CLEAR	10	30	20 <b>°</b>				

Note:

1.  $\theta$ 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

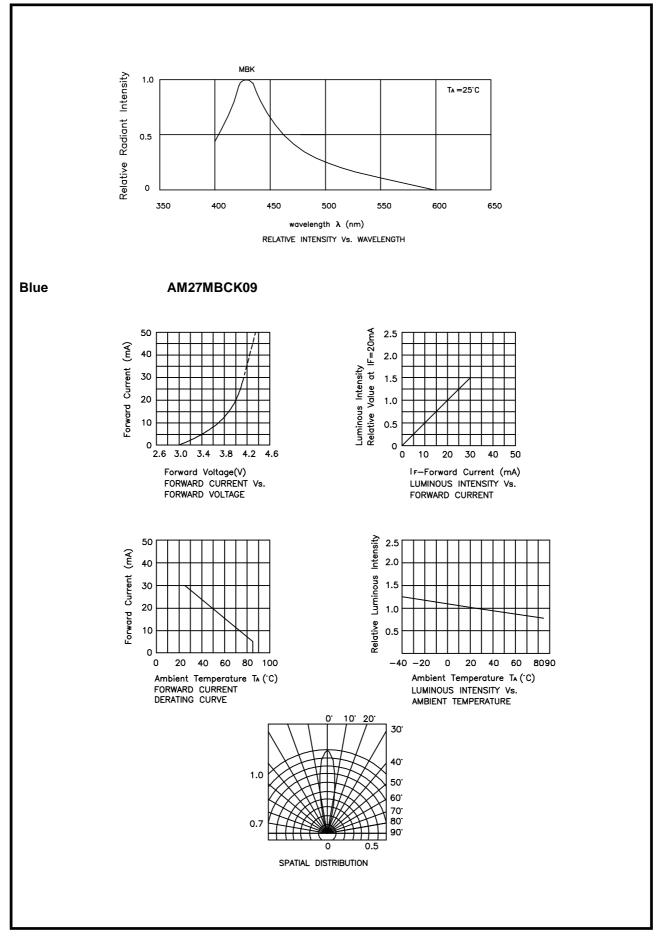
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	430		nm	IF=20mA
λD	Dominant Wavelength	Blue	466		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	60		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	4.0	5.2	V	IF=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

### Absolute Maximum Ratings at TA=25°C

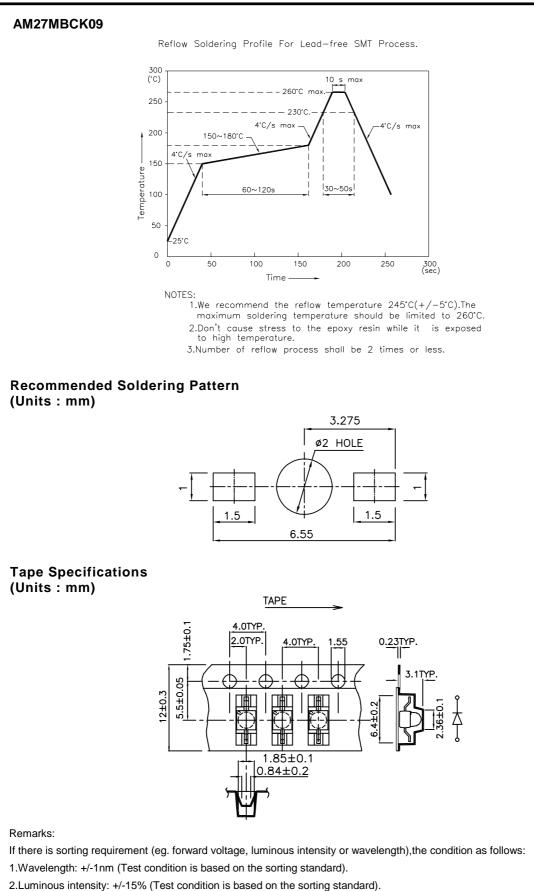
Parameter	Blue	Units	
Power dissipation	105	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	ating/Storage Temperature -40°C To +85°C		

Notes:

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



SPEC NO: DSAD1339 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/07/2005 DRAWN: W.J.ZHU PAGE: 3 OF 4 ERP:1202000281



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

SPEC NO: DSAD1339 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/07/2005 DRAWN: W.J.ZHU PAGE: 4 OF 4 ERP:1202000281