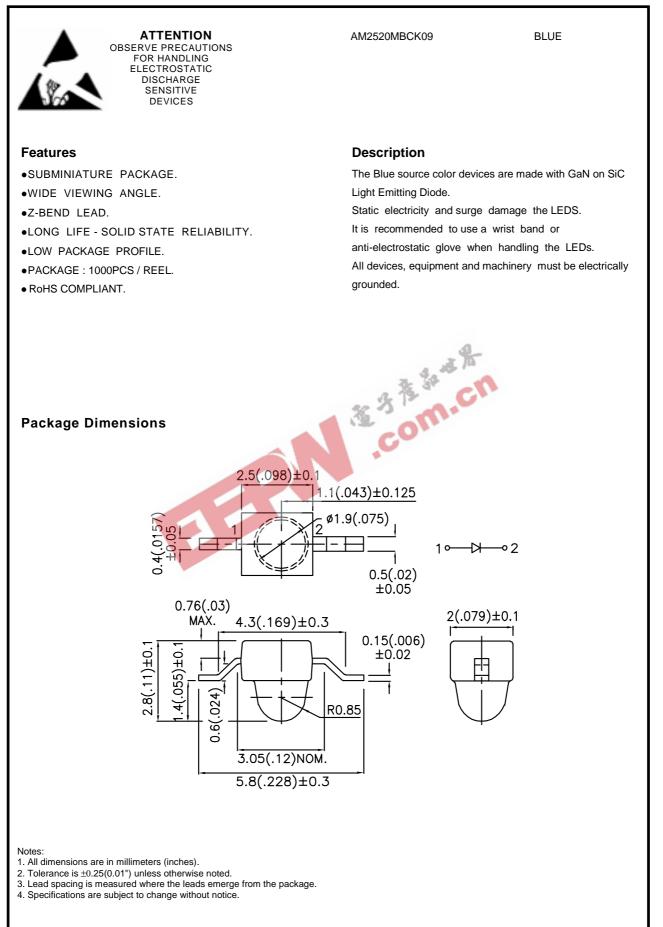
SUBMINIATURE SOLID STATE LAMP



REV NO: V.3 CHECKED: Allen Liu DATE: MAR/07/2005 DRAWN: Y.W.WANG PAGE: 1 OF 4 ERP: 1202000528

| Selection Guide | | | | | | | | |
|-----------------|------------|-------------|--------------------|------|--------------------|--|--|--|
| Part No. | Dice | Lens Type | lv (mcd) @ 20mA | | Viewing Angle | | | |
| | | | Min. | Тур. | 2 0 1/2 | | | |
| AM2520MBCK09 | BLUE (GaN) | WATER CLEAR | 10 | 30 | 20° | | | |

Note:

1. θ 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 | a. 31 | nm | IF=20mA |
| С | Capacitance | Blue | 100 | 12 | pF | VF=0V;f=1MHz |
| Vf | Forward Voltage | Blue | 4.0 | 5.2 | V | IF=20mA |
| IR | Reverse Current | Blue | C | 10 | uA | Vr = 5V |

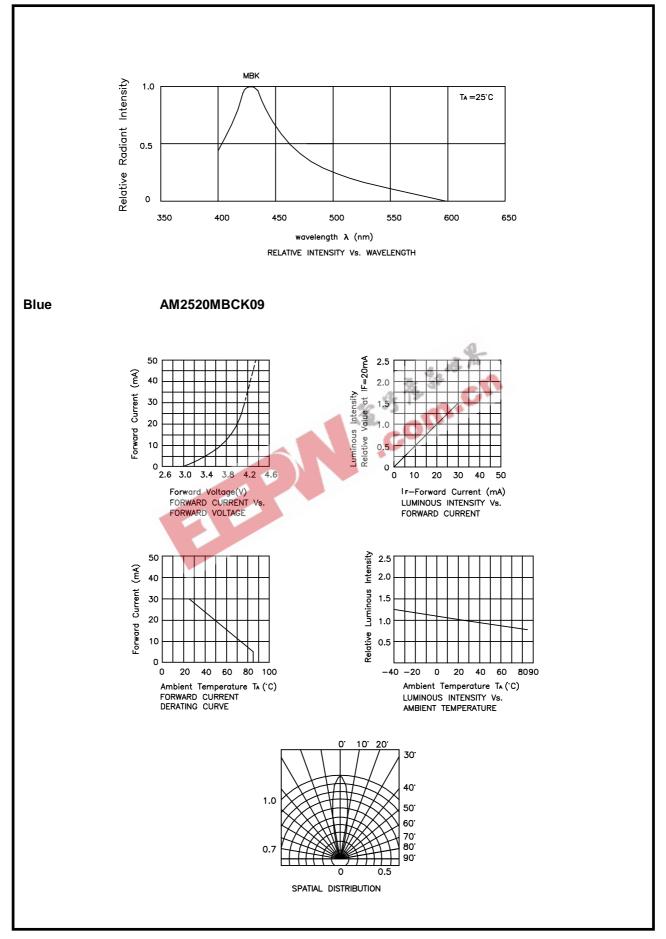


Absolute Maximum Ratings at TA=25°C

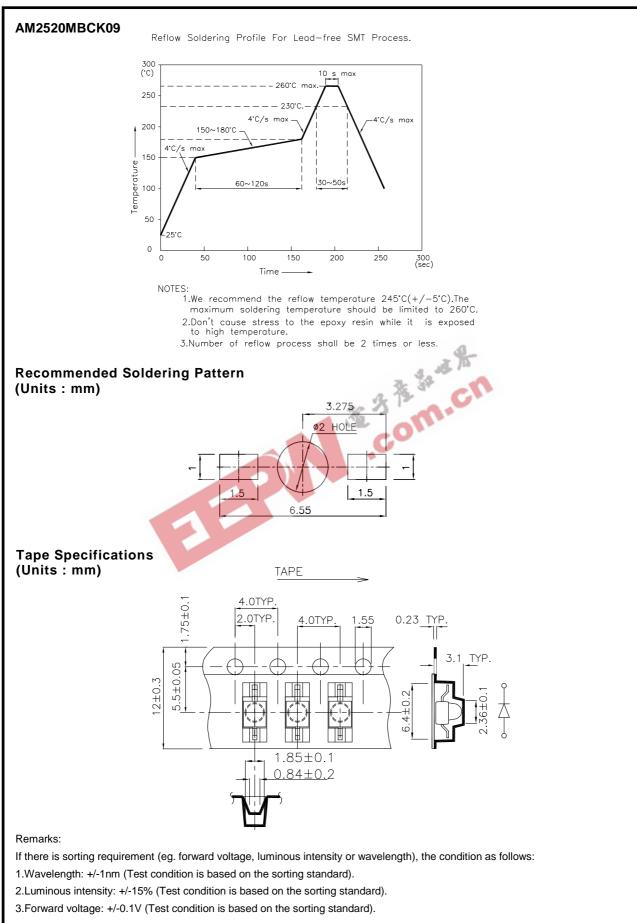
| Parameter | Blue | Units | |
|---------------------------------|------------------|-------|--|
| Power dissipation | 105 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 150 | mA | |
| Reverse Voltage | 5 | V | |
| Operating / Storage Temperature | e -40°C To +85°C | | |

Note:

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



SPEC NO: DSAD1293 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/07/2005 DRAWN: Y.W.WANG PAGE: 3 OF 4 ERP: 1202000528



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