

DESCRIPTION

The MBB51D is a efficient GaN blue LED with a 430nm peak wavelength, It is encapsulated in a T-1 3/4 standard package with 1 inch lead and blue diffused lens.

FEATURES

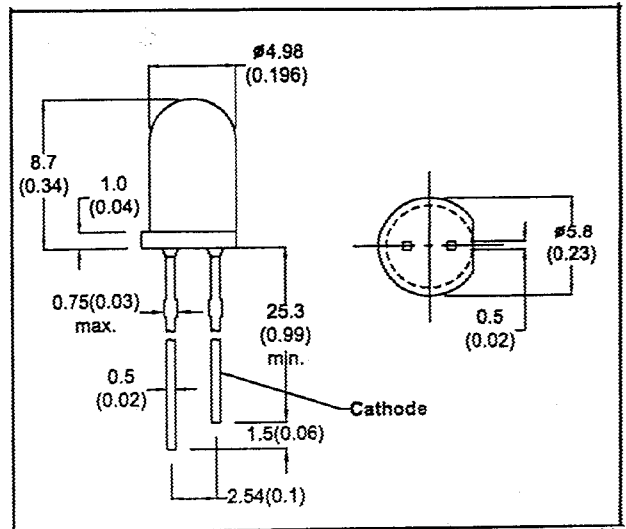
High Performance - 700 μ W
Superior SiC substrate technology
430nm peak wavelength
Excellent chip to chip consistency
High Reliability

APPLICATIONS

Outdoor Full Color Displays & Moving Message Signs
Solid State Incandescent Replacement Bulbs
High Ambient Panel Indicators
Color Printers and Scanners
Medical & Analytical Instruments

ABSOLUTE MAXIMUM RATINGS

| | |
|-------------------------------------|---------------|
| Power Dissipation @ Ta=25°C | 125mW |
| Forward Current, DC (IF) | 25mA |
| Reverse Voltage | 5V |
| Operating Temperature | -20 to +80°C |
| Storage Temperature | -30 to +100°C |
| Lead Temperature | 260°C |
| (Soldering 5 sec., 1/16" form body) | |



- All dimension in mm(inch)
- No Scale
- Tol. : +/-0.3mm

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | CONDITIONS |
|--------------------------|-----------------|-----|-----|-----|---------|------------|
| Forward Voltage | VF | | 3.8 | 5.0 | V | IF=20mA |
| Reverse Current | IR | | | 100 | μ A | VR=5V |
| Luminous Intensity | IV | 10 | 15 | | mcd | IF=20mA |
| Peak Wavelength | λ_p | | 430 | | nm | IF=20mA |
| Spectral Line Half Width | $\Delta\lambda$ | | 65 | | nm | IF=20mA |
| Viewing Angle | 2 θ 1/2 | | 40 | | degree | IF=20mA |

CAUTION

Static electricity does damage these product. Don't apply it to their leadframes.



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