

## DESCRIPTION

The MBB31TA is a efficient GaN blue LED with a 430nm peak wavelength, It is encapsulated in a 3.2mm diameter package with 1.1 inch lead and clear transparent lens.

## FEATURES

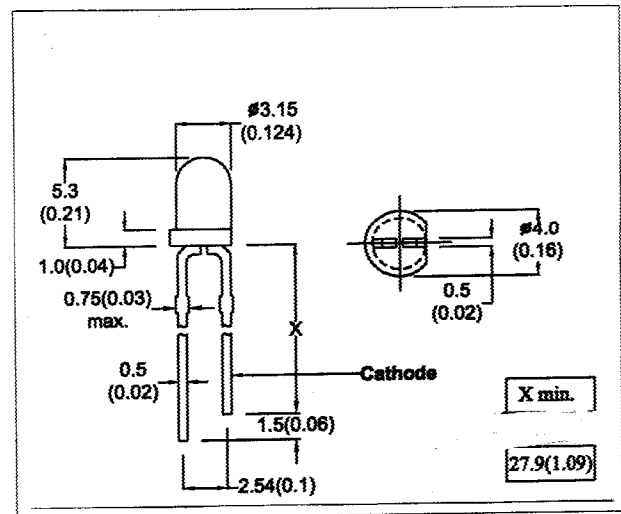
High Performance -  $700\mu\text{W}$   
 Superior SiC substrate technology  
 430nm peak wavelength  
 Excellent chip to chip consistency  
 High Reliability

## 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 @ $T_a=25^\circ\text{C}$	125mW
Forward Current, DC (IF)	25mA
Reverse Voltage	5V
Operating Temperature	-20 to $+80^\circ\text{C}$
Storage Temperature	-30 to $+100^\circ\text{C}$
Lead Temperature	$260^\circ\text{C}$
(Soldering 5 sec., 1/16" form body)	



- All dimension in mm(inch)
- No Scale
- Tol. :  $\pm 0.3\text{mm}$

## ELECTRO-OPTICAL CHARACTERISTICS

( $T_a=25^\circ\text{C}$ )

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	CONDITIONS
Forward Voltage	VF		3.8	5.0	V	IF=20mA
Reverse Current	IR			100	$\mu\text{A}$	VR=5V
Luminous Intensity	IV	150	250		mcd	IF=20mA
Peak Wavelength	$\lambda_p$		430		nm	IF=20mA
Spectral Line Half Width	$\Delta\lambda$		65		nm	IF=20mA
Viewing Angle	$2\theta_{1/2}$		40		degree	IF=20mA

## CAUTION

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



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