

#### DESCRIPTION

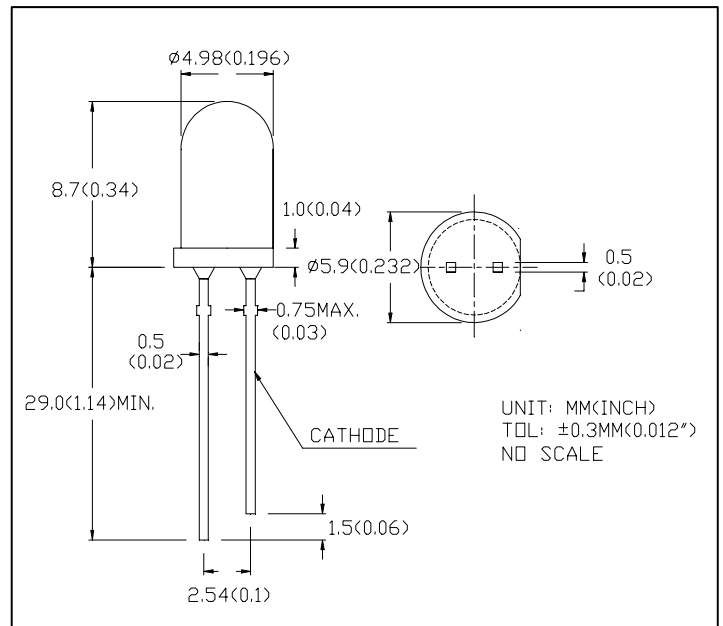
MBB51XA-EJ series are high brightness InGaN/GaN blue LED lamps with 5mm diameter epoxy package .

MBB51CA-EJ is blue chip with blue transparent lens.

MBB51DA-EJ is blue chip with blue diffused

MBB51TA-EJ is blue chip with clear transparent lens.

MBB51WA-EJ is blue chip with white diffused lens.



#### ABSOLUTE MAXIMUM RATINGS

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

#### ELECTRO-OPTICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	CONDITIONS
Forward Voltage	VF		3.5	4.5	V	IF=20mA
Reverse Breakdown Voltage	BVR	5			V	IR=100 $\mu$ A
Dominant Wavelength	$\lambda_d$	465	468	470	nm	IF=20mA
Spectral Line Half Width	$\Delta\lambda$		30		nm	IF=20mA
Luminous Intensity	IV	100	180		mcd	IF=20mA
	IV	2500	3500		mcd	IF=20mA
Viewing Angle	$2\theta$	1/2	40		degree	IF=20mA
	$2\theta$	1/2	20		degree	IF=20mA

#### CAUTION

Static electricity and surge damages the LED, it is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

REV : A

12/12/02



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MBB51DA-EJ  
MBB51WA-EJ

