

#### DESCRIPTION

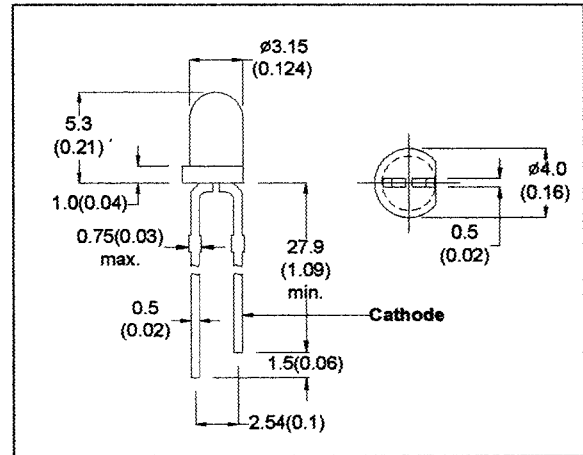
MSB31XA Series are ultra high brightness GaAlAs red LED lamp with 3mm diameter epoxy package.

MSB31CA is GaAlAs red chip with red transparent lens.

MSB31DA is GaAlAs red chip with red diffused lens.

MSB31TA is GaAlAs red chip with clear transparent lens.

MSB31WA is GaAlAs red chip with clear diffused lens.



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

#### ABSOLUTE MAXIMUM RATINGS

Power Dissipation @Ta=25°C

Forward Current, DC (IF)

Reverse Voltage

Operating & Storage Temperature Range

Lead Soldering Temperature (1/16" from body)

100mW

40mA

5V

-55 to +100°C

260°C for 5 sec.

#### ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MSB31CA	MSB31DA	MSB31TA	MSB31WA	UNIT	CONDITIONS
Forward Voltage	MAX VF	2.4	2.4	2.4	2.4	V	IF=20mA
Reverse Breakdown Voltage	MIN BVR	5	5	5	5	V	IR=100 μ A
Luminous Intensity	MIN IV	150	35	150	35	mcd	IF=20mA
	TYP	250	50	250	50	mcd	
Peak Wavelength	TYP λp	660	660	660	660	nm	IF=20mA
Spectral Line Half Width	TYP Δλ	20	20	20	20	nm	IF=20mA
Viewing Angle	TYP 2θ 1/2	40	60	40	60	degree	IF=20mA

MICRO ELECTRONICS LTD.

38, Hung To Road, Microtron Bulding, Kwun Tong, Kowloon, Hong Kong.

Kwun Tong P.O. Box 69477 Hong Kong. Fax No. 2341 0321 Telex:43510 Micro Hx. Tel: 2343 0181-5

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