

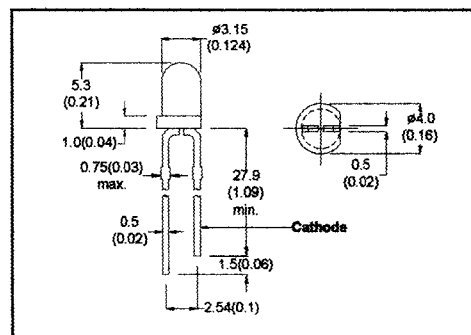
MICRO

ELECTRONICS

MSB31DA-X
(MSB31DA)
ULTRA HIGH
BRIGHTNESS
RED LED LAMP

DESCRIPTION

MSB31DA-X is an ultra high brightness output red GaAlAs LED lamp encapsulated in a 3mm diameter, red transparent lens with an optimum viewing angle. 6 brightness grouping is provided for customer's selection.



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

ABSOLUTE MAXIMUM RATINGS

| | |
|--|----------------|
| Power Dissipation @ Ta=25°C | 100mW |
| Forward Current, DC (IF) | 40mA |
| Reverse Voltage | 5V |
| Operating & Storage Temperature Range | -55 to +100°C |
| Lead Soldering Temperature (1/16" from body) | 260°C for 5sec |

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | CONDITIONS |
|---------------------------|-----------------|-----|-----|-----|--------|----------------|
| Forward Voltage | VF | | 1.8 | 2.4 | V | IF=20mA |
| Reverse Breakdown Voltage | BVR | 5 | | | V | IR=100 μ A |
| Luminous Intensity | IV | | | | mcd | IF=20mA |
| MSB31DA & -0 | | 18 | 30 | | mcd | IF=20mA |
| -1 | | 35 | 50 | | mcd | IF=20mA |
| -2 | | 50 | 75 | | mcd | IF=20mA |
| -3 | | 70 | 90 | | mcd | IF=20mA |
| -4 | | 90 | 120 | | mcd | IF=20mA |
| -5 | | 120 | 150 | | mcd | IF=20mA |
| Peak Wavelength | λ_p | | 660 | | nm | IF=20mA |
| Spectral Line Half Width | $\Delta\lambda$ | | 20 | | nm | IF=20mA |
| Viewing Angle | 2 θ 1/2 | | 60 | | degree | IF=20mA |

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MSB31DA

