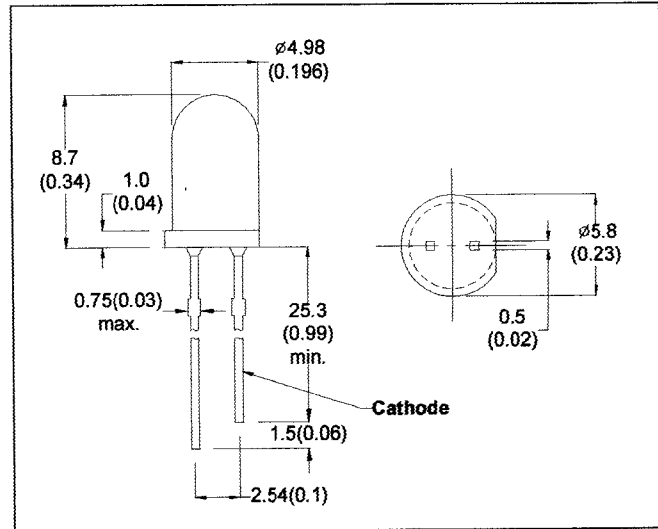


# MICRO ELECTRONICS

**ULTRA HIGH  
BRIGHTNESS  
RED LED LAMP**

## DESCRIPTION

MSB51CA is an ultra high brightness output red GaAlAs LED lamp encapsulated in a 5mm diameter, red transparent lens with narrow viewing angle. 5 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 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 (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=100μA   |
| Luminous Intensity        | IV        |      |      |     | mcd  | IF=20mA    |
|                           | MSB51CA-1 | 300  | 600  |     | mcd  | IF=20mA    |
|                           | MSB51CA-2 | 600  | 900  |     | mcd  | IF=20mA    |
|                           | MSB51CA-3 | 900  | 1500 |     | mcd  | IF=20mA    |
|                           | MSB51CA-4 | 1200 | 1800 |     | mcd  | IF=20mA    |
|                           | MSB51CA-5 | 1800 | 3500 |     | mcd  | IF=20mA    |
| Peak Wavelength           | λp        |      | 660  |     | nm   | IF=20mA    |
| Spectral Line Half Width  | Δλ        |      | 20   |     | nm   | IF=20mA    |

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