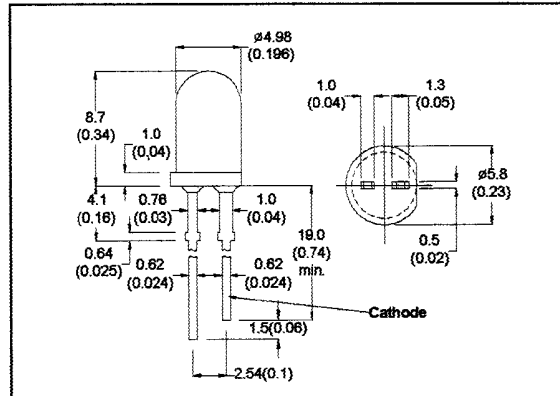


MICRO ELECTRONICS

ULTRA HIGH
BRIGHTNESS
RED LED LAMP

DESCRIPTION

MS51TA is an ultra high brightness output red GaAlAs LED lamp encapsulated in a 5mm diameter clear transparent lens with an optimum viewing angle. 6 brightness grouping is provided for customer' 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 | -50 to +100°C |
| Lead Temperature | 260°C |

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 μA |
| Luminous Intensity | IV | | | | mcd | IF=20mA |
| MS51TA & MS51TA-0 | MS51TA-0 | 30 | 45 | | mcd | IF=20mA |
| | MS51TA-1 | 50 | 75 | | mcd | IF=20mA |
| | MS51TA-2 | 80 | 120 | | mcd | IF=20mA |
| | MS51TA-3 | 120 | 180 | | mcd | IF=20mA |
| | MS51TA-4 | 160 | 240 | | mcd | IF=20mA |
| | MS51TA-5 | 240 | 400 | | mcd | IF=20mA |
| Peak Wavelength | λp | | 660 | | nm | IF=20mA |
| Spectral Line Half Width | Δλ | | 20 | | nm | IF=20mA |
| Viewing Angle | 2θ 1/2 | | 40 | | degree | IF=20mA |

Rev.A.

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