

DESCRIPTION

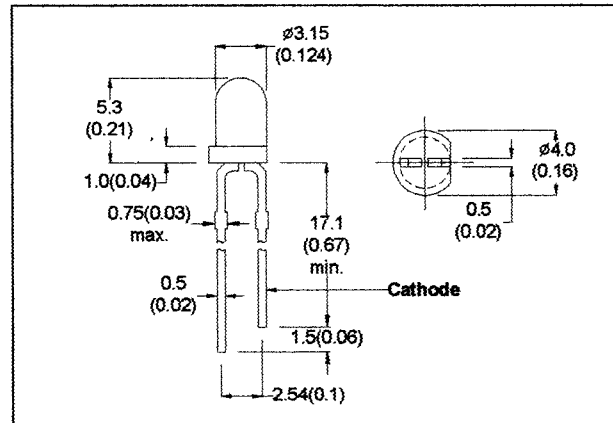
MS31 Series are red LED lamp with 3mm diameter epoxy package.

MS31C is red chip with red transparent lens.

MS31D is red chip with red diffused lens.

MS31T is red chip with clear transparent lens.

MS31W is 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)

45mW

15mA

5V

-55 to +100°C

260°C for 5 sec.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | MS31C | MS31D | MS31T | MS31W | UNIT | CONDITIONS |
|---------------------------|------------|-------|-------|-------|-------|--------|------------|
| Forward Voltage | MAX VF | 3.0 | 3.0 | 3.0 | 3.0 | V | IF=20mA |
| Reverse Breakdown Voltage | MIN BVR | 5 | 5 | 5 | 5 | V | IR=100μA |
| Luminous Intensity | MIN IV | 2.0 | 1.0 | 2.0 | 1.0 | mcd | IF=10mA |
| | TYP | 3.0 | 1.5 | 3.0 | 1.5 | mcd | |
| Peak Wavelength | TYP λp | 700 | 700 | 700 | 700 | nm | IF=20mA |
| Spectral Line Half Width | TYP Δλ | 100 | 100 | 100 | 100 | nm | IF=20mA |
| Viewing Angle | TYP 2θ 1/2 | 40 | 60 | 40 | 60 | degree | IF=10mA |

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