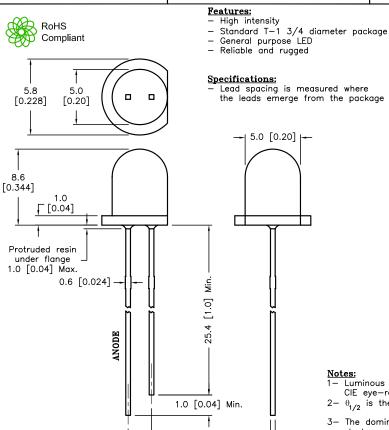


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SPC-F005.DWG

| Į, | REVISIONS | | | DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398 | | | | | | |
|----|-----------|-----|-------------|--|--------|--------|---------|--------|---------|--|
| | DCP # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE | |
| | 1908 | Α | RELEASED | EO | 6/7/06 | YA | 6/19/06 | НО | 6/19/06 | |
| | | | | | | | | | | |



Absolute Maximum Rating at Ta=25°C

| MAX. | Unit | |
|-----------------|-----------------------------------|--|
| 80 | mW | |
| 100 | mA | |
| 20 | mA | |
| 0.4 | mA/°C | |
| 5 | V | |
| -25°C to +80°C | | |
| -40°C to +100°C | | |
| 260°C fo | r 5 seconds | |
| | 100 20 0.4 5 -25°C to | |

Red

Source Color Chip Material

AlGaAs

Lens Color

Diffused

Electrical Optical Characteristics at Ta=25°C

| Parameter | Symbol | Min. | Тур. | Max | Unit | Test Condition |
|--------------------------|-------------------|------|------|-----|------|-------------------------------|
| Luminous Intensity | Ιν | | 20 | | mcd | I _f =20mA (Note 1) |
| Viewing Angle | 2θ _{1/2} | | 80 | | Deg | (Note 2) |
| Peak Emission Wavelength | λр | | 660 | | nm | I _f =20mA |
| Dominant Wavelength | λd | | 645 | | nm | I _f =20mA (Note 3) |
| Spectral Line Half-Width | Δλ | | 25 | | nm | I _f =20mA |
| Forward Voltage | V_{f} | | 2 | 2.5 | ٧ | I _f =20mA |
| Reverse Current | I_R | | | 100 | μΑ | V _R =5V |

<u>Notes:</u>

- 1- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3— The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED
HERRIN ARE BASED UPON INFORMATION AND/OR TESTS WE
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE
CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE
USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT
FOR THE INTENDED USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

2.54 [0.1] Nom. –

UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

0.5 [0.02] SQ. -

TOLERANCES:

DRAWN BY: DATE: 6/7/06 EKLAS ODISH CHECKED BY: DATE: 6/19/06 YILMAZ AKYONDEM APPROVED BY: DATE: 6/19/06 HISHAM ODISH

DRAWING TITLE: Standard LED, Round Lens, 5mm (T1 3/4), RED Emitting Color DWG. NO. ELECTRONIC FILE REV MV5053 87K7091.DWG Α SCALE: NTS U.O.M.: mm [INCHES] SHEET: OF 2

