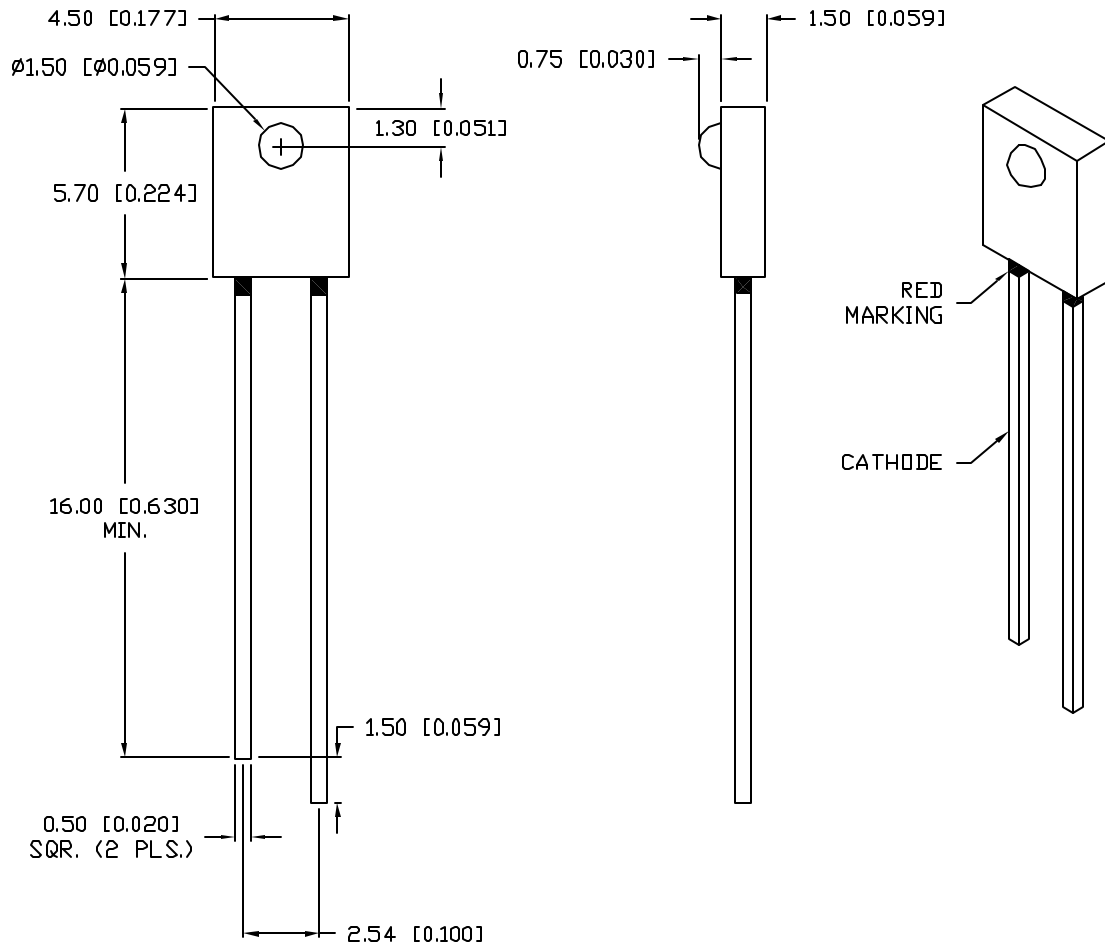


UNCONTROLLED DOCUMENT



| | | |
|------------------|-------------------------------------|----------|
| PART NUMBER | | REV. |
| OED-EL-1556SN-RP | | D |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | ADDED EPOXY COLOUR. | 10.7.97 |
| B | E.C.N. #10BRDR. | 1.7.98 |
| C | E.C.N. #10BRDR. & REDRAWN IN 3D. | 12.31.02 |
| D | E.C.N. #11232. | 3.29.05 |

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-----|----------|-----|---------|---------------------|
| PEAK WAVELENGTH | | 940 | | nm | |
| SPECTRAL BANDWIDTH | | 50 | | nm | |
| FORWARD VOLTAGE | | 1.2 | 1.4 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_f=10\mu\text{A}$ |
| RADIANT INTENSITY | | 1.8 | | mW/SR | $I_f=50\text{mA}$ |
| HALF ANGLE | | ± 15 | | degrees | |

☐ EPOXY LENS FINISH: WATER CLEAR

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT* | 1 | A |
| STEADY CURRENT | 60 | mA |
| POWER DISSIPATION | 80 | mW |
| DERATE FROM 25°C | -1.2 | mW/ $^\circ\text{C}$ |
| OPERATING TEMP. | -20 TO +70 | $^\circ\text{C}$ |
| STORAGE TEMP. | -30 TO +80 | $^\circ\text{C}$ |
| SOLDERING TEMP. | +260 | $^\circ\text{C}$ |
| 2.0mm FROM BODY | | 3 SEC. MAX |

* $t_p < 100\mu\text{s}$, $t_p/T = 0.01$

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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

| | |
|--|------------------|
| REV. | PART NUMBER |
| D | OED-EL-1556SN-RP |
| T-1.5mm DOMED RIGHT ANGLE, 940nm INFRARED EMITTER, WATER CLEAR LENS, REVERSE POLARITY. | |

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RELIABILITY NOTE
 OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
| BC | | | 10.6.92 |
| | | PAGE: | 1 OF 1 |
| | | SCALE: | N/A |