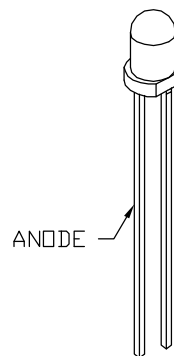
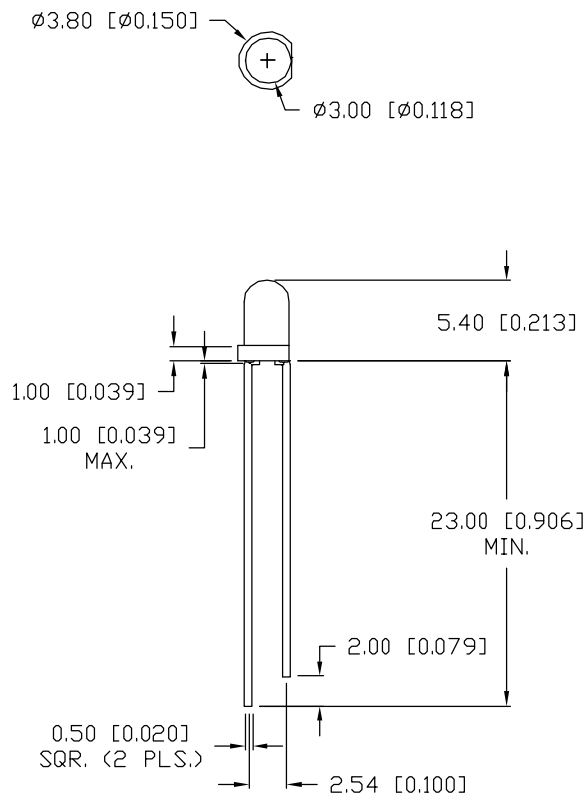


UNCONTROLLED DOCUMENT

PART NUMBER
OED-EL-8LREV.
C

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|----------|
| A | E.C.N. #10247. | 9.30.96 |
| B | E.C.N. #10BRDR. | 1.7.98 |
| C | E.C.N. #10BRDR. & REDRAWN IN 3D. | 12.31.02 |

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 | | 45 | | nm | |
| FORWARD VOLTAGE | | 1.4 | 1.5 | V_f | |
| REVERSE VOLTAGE | | | 5.0 | V_r | $I_r=10\mu\text{A}$ |
| RADIANT INTENSITY | 25 | 50 | | mW/SR | $I_f=100\text{mA}$ |
| HALF ANGLE | | ± 20 | | degrees | |
| EPOXY LENS FINISH: WATER CLEAR | | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|--------------------------------|-------------|----------------------|
| PEAK FORWARD CURRENT* | 1 | A |
| STEADY CURRENT | 100 | mA |
| POWER DISSIPATION | 150 | mW |
| DERATE FROM 25°C | -1.6 | mW/ $^\circ\text{C}$ |
| OPERATING TEMP. | -25 TO +85 | $^\circ\text{C}$ |
| STORAGE TEMP. | -25 TO +100 | $^\circ\text{C}$ |
| SOLDERING TEMP. | +260 | $^\circ\text{C}$ |
| 2.0mm FROM BODY | | 3 SEC. MAX |

* $t_p < ???\mu\text{S}$, $t_p/T = ???$

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

REV.
CPART NUMBER
OED-EL-8L

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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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T-3mm, 940nm INFRARED EMITTER, WATER CLEAR LENS.

DRAWN BY:

BC

CHECKED BY:

APPROVED BY:

DATE: 4.21.93

PAGE: 1 OF 1

SCALE: N/A