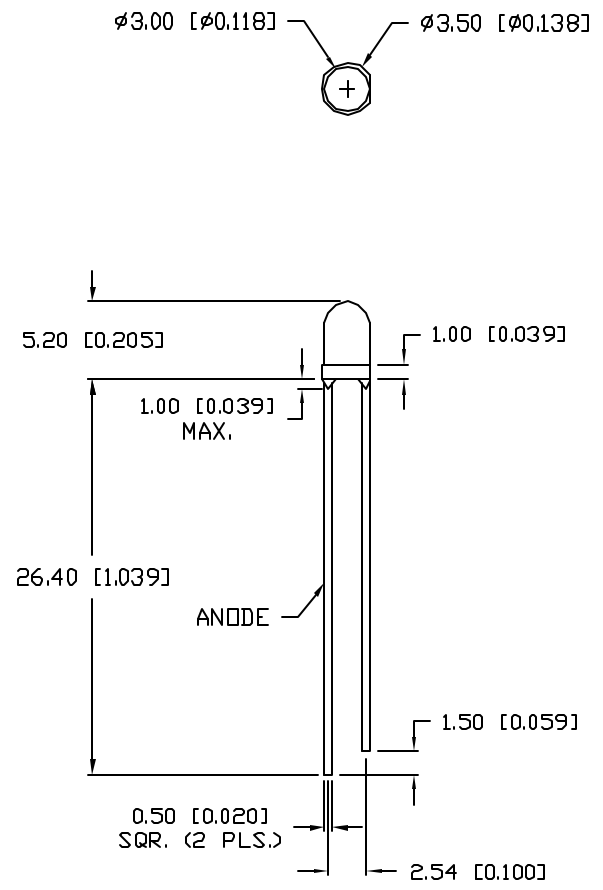


UNCONTROLLED DOCUMENT

| | | |
|-------------|-------------------------------------|----------|
| PART NUMBER | | REV. |
| OED-CL-8L | | C |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10382. | 11.7.97 |
| B | E.C.N. #10BRDR. & REDRAWN. | 1.5.98 |
| C | E.C.N. #10BRDR. & REDRAWN. | 11.15.02 |



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=50\text{mA}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-------------------|-----|-----|-----|---------|----------------------|
| PEAK WAVELENGTH | | 880 | | nm | |
| FORWARD VOLTAGE | | 1.7 | | V_f | $I_f=50\text{mA}$ |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| RADIANT INTENSITY | | 13 | | mW/SR | $I_f=50\text{mA}$ |
| HALF ANGLE | | 20 | | degrees | |

EPOXY LENS FINISH: WATER CLEAR LENS

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 1 | A |
| STEADY CURRENT | 100 | mA |
| POWER DISSIPATION | 190 | mW |
| DERATE FROM 25°C | -1.2 | mW/°C |
| OPERATING TEMP. | -25 TO +85 | °C |
| STORAGE TEMP. | -40 TO +85 | °C |
| SOLDERING TEMP. | +260 | °C |

2.0mm FROM BODY 3 SEC. MAX

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

*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= ^{+0.00} _{-0.00} DECIMAL PRECISION MAX= ^{+0.00} _{-0.00} DECIMAL PRECISION

UNCONTROLLED DOCUMENT

| | |
|---|-------------|
| REV. | PART NUMBER |
| C | OED-CL-8L |
| T-1 (T-3mm) INFRARED EMITTING DIODE, HIGH PERFORMANCE, WATER CLEAR LENS. | |

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

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.

290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY: GT
CHECKED BY:
APPROVED BY:

| |
|----------------|
| DATE: 11.30.92 |
| PAGE: 1 OF 1 |
| SCALE: N/A |