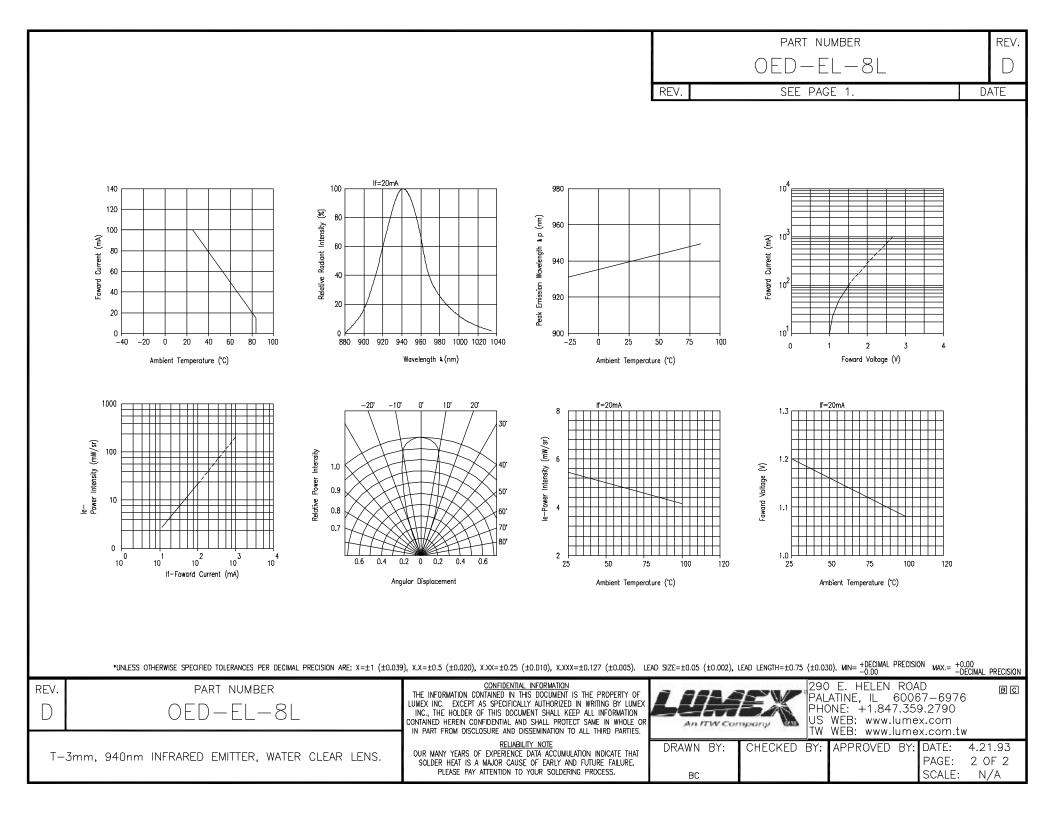
|   |  | part number<br>OED-EL-8L             |              |               |                        |                    |                      | REV.          |
|---|--|--------------------------------------|--------------|---------------|------------------------|--------------------|----------------------|---------------|
|   |  |                                      |              |               |                        |                    |                      | D             |
|   | ľ  | REV. E.C.N. I                        | NUMBER       | AND RE        | VISION C               |                    | S [                  | DATE          |
|   | Ĩ  | A E.C.N. j                           | #10247.      |               |                        |                    | 9.                   | 30.96         |
|   |  | B E.C.N. j                           | #10BRDR      | •             |                        |                    | 1.                   | .7.98         |
|   |  | C E.C.N. ;                           | #10BRDR      | . & REI       | DRAWN II               | N 3D.              | 12.                  | .31.02        |
|   |  | D E.C.N. ;                           | #11561.      |               |                        |                    | 3.1                  | 23.09         |
| 0 Ø4.00 [Ø0.157]  |  |                                      |              |               |                        |                    |                      |               |
| (+)   |  |                                      |              |               |                        |                    |                      |               |
| Ø3.00 [Ø0.118]  | -  | ELECTRO-OPTICAL C                    |              |               |                        | =20mA              |                      |               |
|   |  |                                      | MIN          | TYP           | MAX                    | UNITS              | TEST CON             |               |
|   |  | PEAK WAVELENGTH<br>SPECTRAL BANDWIDT | н            | 940<br>45     |                        | nm<br>nm           |                      |               |
|   |  | FORWARD VOLTAGE                      |              | 1.2           | 1.5                    | Vf                 | lf=20mA              |               |
|   |  |                                      |              | 1.4*          | 1.8*                   | Vf                 | lf=100mA             |               |
| 1 . ( ) 5.20 [0.2   | 0510   |                                      |              | 2.6*          | 4.0*                   | Vf                 | lf=1A                |               |
|   |  | REVERSE VOLTAGE                      |              |               | 5.0                    | Vr<br>             | I <sub>r</sub> =10µA |               |
| 1.00 [0.039]  |  | RADIANT INTENSITY                    | 4.0          | 5.6<br>35*    |                        | mW/SR<br>mW/SR     | lf=20mA<br>lf=100mA  |               |
|   |  |                                      |              | 390*          |                        | mW/SR              | lf=1A                |               |
| 回1.50 [0.059] _   |  | HALF ANGLE                           |              | ±17.5         |                        | degrees            | $\Pi = \Pi \chi$     |               |
|   |  | EPOXY LENS FINISH:                   | WATER CL     | EAR           |                        | -                  |                      |               |
|   |  | * tp<100 <b>µ</b> S, TP/T=           | 1%           |               |                        |                    |                      |               |
| 26.40 [1.(<br>MIN.  |  | LIMITS OF SAFE OPE                   |              | ን5•ሮ          |                        |                    |                      |               |
|   | _  | PARAMETER                            |              | 23 6          | МАХ                    |                    | UNITS                |               |
|   | -  | PEAK FORWARD CUR                     | RENT*        |               | 1                      |                    | A                    |               |
|   | S  | STEADY CURRENT                       |              |               | 100                    |                    | mA                   |               |
| L.00 [0.039]  |  | POWER DISSIPATION                    |              |               | 150                    |                    | mW                   |               |
|   |  | DERATE FROM 25°C                     |              |               | -1.6                   | _                  | mW/'C                |               |
| 0.50 [0.020]  |  | OPERATING TEMP.<br>STORAGE TEMP.     |              |               | -40 TO +8<br>-40 TO +8 |                    | °C<br>•C             |               |
| SQR. (2 PLS.)   |  | SOLDERING TEMP.                      |              | _             | + 260                  | J                  | ں<br>℃               |               |
| 2.54 [0.100]  |  | 2.0mm FROM BODY                      |              |               | 1 200                  |                    | 3 SEC. MAX           |               |
|   |  | * tp<100µS, tp/T=^                   | 1%           |               |                        |                    |                      |               |
|   |  |                                      |              |               |                        |                    | Rb                   |               |
|   |  |                                      |              |               |                        |                    |                      |               |
| *UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= $\pm$ 1 ( $\pm$ 0.0. | 39), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD   | AD SIZE=±0.05 (±0.002), L            | EAD LENGTH=± | 0.75 (±0.030) | ). MIN= +DECIM         | ial precision      |                      | PRECISION     |
| REV. PART NUMBER  | CONFIDENTIAL INFORMATION   |                                      |              |               | E. HELE                |                    |                      | BC            |
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| T-3mm, 940nm INFRARED EMITTER, WATER CLEAR LENS.  | IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.<br>RELIABILITY NOTE<br>OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT<br>SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. | DRAWN BY:                            | CHECKE       |               | APPROVE                |                    | ATE: 4.2             | 21.93<br>OF 1 |
|   | PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.  | BC                                   |              |               |                        |                    |                      | ∖/A           |



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