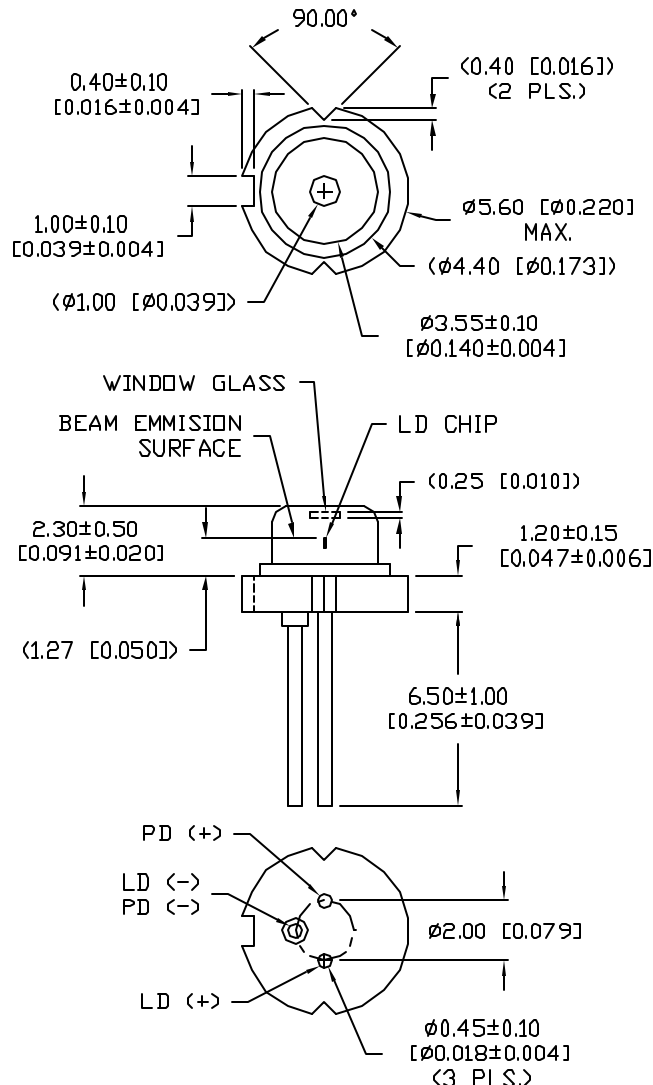


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PART NUMBER  
OED-LD65001E

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10559.                      | 10.12.99 |
| B    | E.C.N. #10BRDR.                     | 11.29.01 |



⊠ ELECTRO-OPTICAL CHARACTERISTICS (T<sub>c</sub>=25°C)

| PARAMETER          | SYMBOL          | MIN | TYP | MAX | TEST COND            | UNITS |
|--------------------|-----------------|-----|-----|-----|----------------------|-------|
| LASING WAVELENGTH  | λ               |     | 650 | 660 | P <sub>o</sub> =5mW  | nm    |
| THRESHOLD CURRENT  | I <sub>th</sub> |     | 30  | 40  | CW                   | mA    |
| OPERATING CURRENT  | I <sub>op</sub> |     | 40  | 50  | P <sub>o</sub> =5mW  | mA    |
| OPERATING VOLTAGE  | V <sub>op</sub> | 2.0 | 2.1 | 2.5 | P <sub>o</sub> =5mW  | V     |
| MONITORING CURRENT | I <sub>m</sub>  | 0.1 | 0.7 | 1.0 | P <sub>o</sub> =5mW  | mA    |
| ASTIGMATISM        | A <sub>s</sub>  | 3   | 5   | 8   |                      | μm    |
| BEAM DIVERGENCE:   | θ               |     | 8   | 12  | P <sub>o</sub> =5mW, | deg.  |
|                    | θ <sub>LL</sub> | 25  | 30  | 35  | FWHM                 | deg.  |

ABSOLUTE MAXIMUM RATINGS (T<sub>c</sub>=25°C)

| PARAMETER          | SYMBOL             | MAX        | UNITS |
|--------------------|--------------------|------------|-------|
| OPTICAL POWER      | P <sub>o</sub>     | 5          | mW    |
| LD REVERSE VOLTAGE | V <sub>R(LD)</sub> | 2          | V     |
| PD REVERSE VOLTAGE | V <sub>R(PD)</sub> | 30         | V     |
| OPERATING TEMP.    | T <sub>op</sub>    | -10 TO +70 | °C    |
| STORAGE TEMP.      | T <sub>stg</sub>   | -40 TO +85 | °C    |

\*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.=<sup>+DECIMAL PRECISION</sup><sub>-0.00</sub> MAX.=<sup>+0.00</sup><sub>-DECIMAL PRECISION</sub>

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650nm LASER DIODE, T0-18 (∅5.6mm) PACKAGE,  
5mW OUTPUT, DVD USE.

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.

|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>GT | CHECKED BY: | APPROVED BY: | DATE: 2.12.99 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |