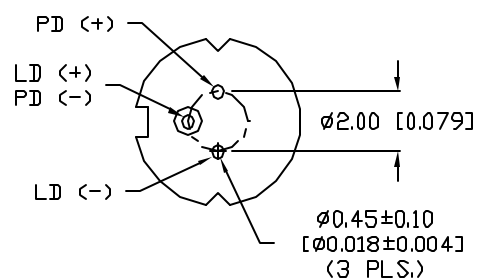
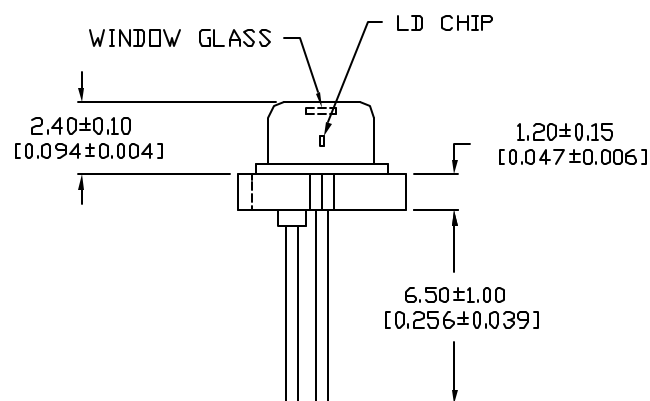
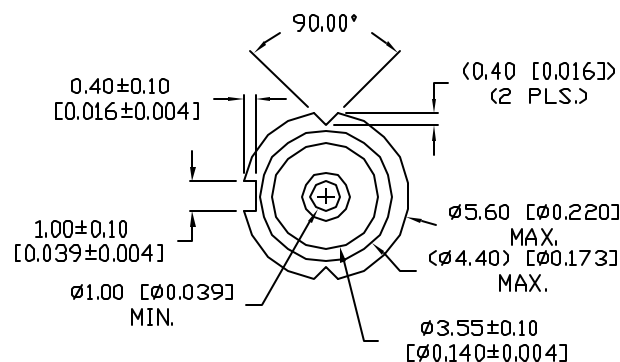


UNCONTROLLED DOCUMENT

PART NUMBER

OED-LD63504E

REV.

ELECTRO-OPTICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$ )

| PARAMETER          | SYMBOL     | MIN  | TYP | MAX | TEST COND                                        | UNITS |
|--------------------|------------|------|-----|-----|--------------------------------------------------|-------|
| LASING WAVELENGTH  | $\lambda$  | 630  | 635 | 640 | $P_o=5\text{mW}$                                 | nm    |
| THRESHOLD CURRENT  | $I_{th}$   |      | 25  | 35  | CW                                               | mA    |
| OPERATING CURRENT  | $I_{op}$   |      | 35  | 45  | $P_o=5\text{mW}$                                 | mA    |
| OPERATING VOLTAGE  | $V_{op}$   |      | 2.2 | 2.6 | $P_o=5\text{mW}$                                 | V     |
| MONITORING CURRENT | $I_m$      |      | 0.2 | 0.8 | $P_o=5\text{mW}$                                 | mA    |
| SLOPE EFFICIENCY   | $\eta$     | 0.35 | 0.5 | 1.0 | $\frac{2\text{mW}}{I(5\text{mW})-I(3\text{mW})}$ | mW/mA |
| BEAM DIVERGENCE:   | $\theta$   |      | 8   |     | $P_o=5\text{mW}$                                 | deg.  |
|                    | $\theta_L$ |      | 30  |     | FWHM                                             | deg.  |

ABSOLUTE MAXIMUM RATINGS ( $T_c=25^\circ\text{C}$ )

| PARAMETER          | SYMBOL    | MAX        | UNITS            |
|--------------------|-----------|------------|------------------|
| OPTICAL POWER      | $P_o$     | 6          | mW               |
| LD REVERSE VOLTAGE | $V_R(LD)$ | 2          | V                |
| PD REVERSE VOLTAGE | $V_R(PD)$ | 30         | V                |
| OPERATING TEMP.    | $T_{op}$  | -10 TO +40 | $^\circ\text{C}$ |
| STORAGE TEMP.      | $T_{stg}$ | -40 TO +85 | $^\circ\text{C}$ |

\*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=+DECIMAL PRECISION -0.00 MAX=+0.00 -DECIMAL PRECISION

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635nm LASER DIODE, TO-18 (φ5.6mm) PACKAGE,  
5mW OUTPUT.

## CONFIDENTIAL INFORMATION

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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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