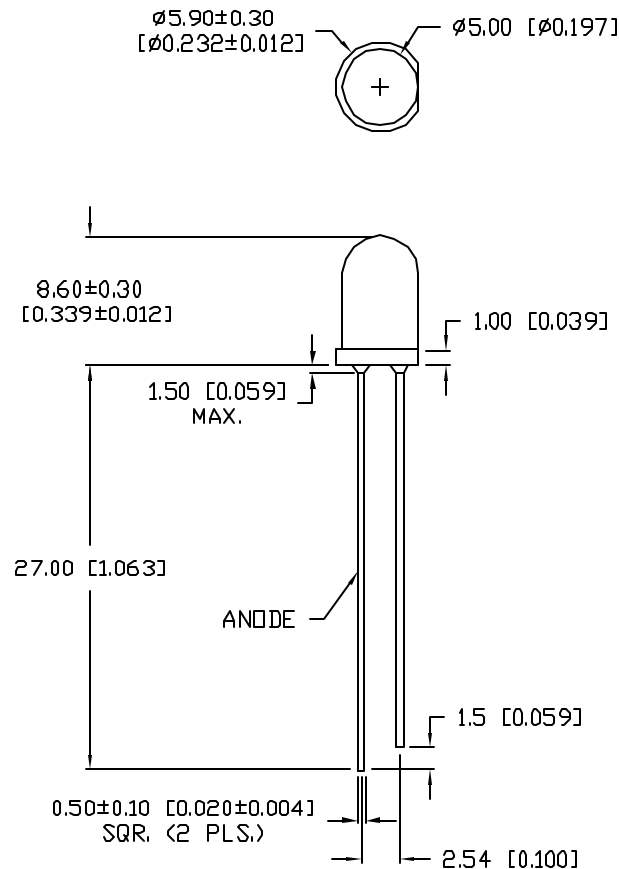


UNCONTROLLED DOCUMENT

PART NUMBER  
OED-CL5093B35REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | E.C.N. #11148.                      | 5.16.07 |

ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$   $I_f = 20\text{mA}$ 

| PARAMETER                             | MIN | TYP | MAX | UNITS    | TEST COND             |
|---------------------------------------|-----|-----|-----|----------|-----------------------|
| PEAK WAVELENGTH                       |     | 850 |     | nm       |                       |
| SPECTRAL BANDWIDTH                    |     | 45  |     | nm       |                       |
| FORWARD VOLTAGE                       |     | 1.5 | 1.7 | $V_f$    |                       |
| REVERSE VOLTAGE                       | 5.0 |     |     | $V_r$    | $I_r = 10\mu\text{A}$ |
| RADIANT INTENSITY                     | 7.8 | 11  |     | mW/str   | $I_f = 20\text{mA}$   |
| HALF ANGLE                            |     | 15  |     | 2X theta |                       |
| EPOXY LENS FINISH: YELLOW TRANSPARENT |     |     |     |          |                       |

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 1          | A                    |
| STEADY CURRENT                 | 50         | mA                   |
| POWER DISSIPATION              | 100        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +260       | $^\circ\text{C}$     |
| 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), 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=+0.00 DECIMAL PRECISION MAX=+0.00 DECIMAL PRECISION

REV.

A

PART NUMBER

OED-CL5093B35

T-5mm (T-1 3/4) 850nm INFRARED LED,  
YELLOW TRANSPARENT LENS.

## 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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