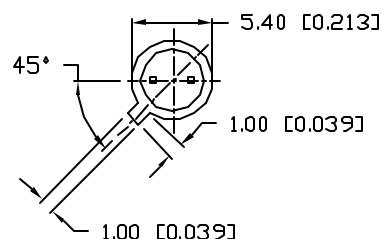
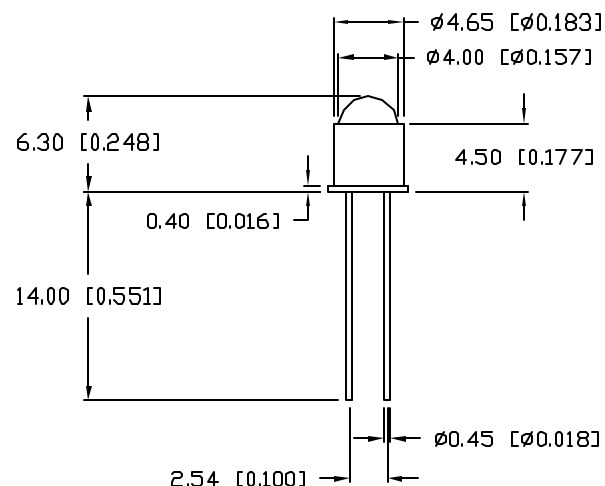


UNCONTROLLED DOCUMENT

PART NUMBER  
OED-CL-1KL5REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10BRDR. & REDRAWN.          | 11.15.02 |

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

| PARAMETER                           | MIN | TYP     | MAX | UNITS   | TEST COND            |
|-------------------------------------|-----|---------|-----|---------|----------------------|
| PEAK WAVELENGTH                     |     | 880     |     | nm      |                      |
| FORWARD VOLTAGE                     |     | 1.7     | 2.0 | $V_f$   | $I_f=100\text{mA}$   |
| REVERSE VOLTAGE                     |     |         | 5.0 | $V_r$   | $I_r=100\mu\text{A}$ |
| RADIANT INTENSITY                   |     | 30      |     | mW/SR   | $I_f=100\text{mA}$   |
| HALF ANGLE                          |     | $\pm 8$ |     | degrees |                      |
| EPOXY LENS FINISH: WATER CLEAR LENS |     |         |     |         |                      |

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

| PARAMETER                        | MAX        | UNITS                  |
|----------------------------------|------------|------------------------|
| PEAK FORWARD CURRENT*            | 1          | A                      |
| STEADY CURRENT                   | 100        | mA                     |
| POWER DISSIPATION                | 170        | mW                     |
| DERATE FROM $25^{\circ}\text{C}$ | -1.2       | mW/ $^{\circ}\text{C}$ |
| OPERATING TEMP.                  | -25 TO +85 | $^{\circ}\text{C}$     |
| 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 PRECISION MAX=+0.00 PRECISION

REV.  
APART NUMBER  
OED-CL-1KL5T0-18 HIGH PERFORMANCE INFRARED EMITTING DIODE,  
WATER CLEAR LENS.

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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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|-----------------|-------------|--------------|--------------------------------------------|

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