

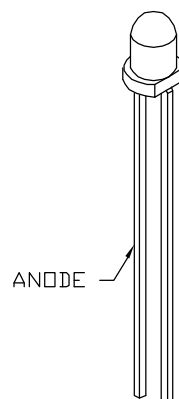
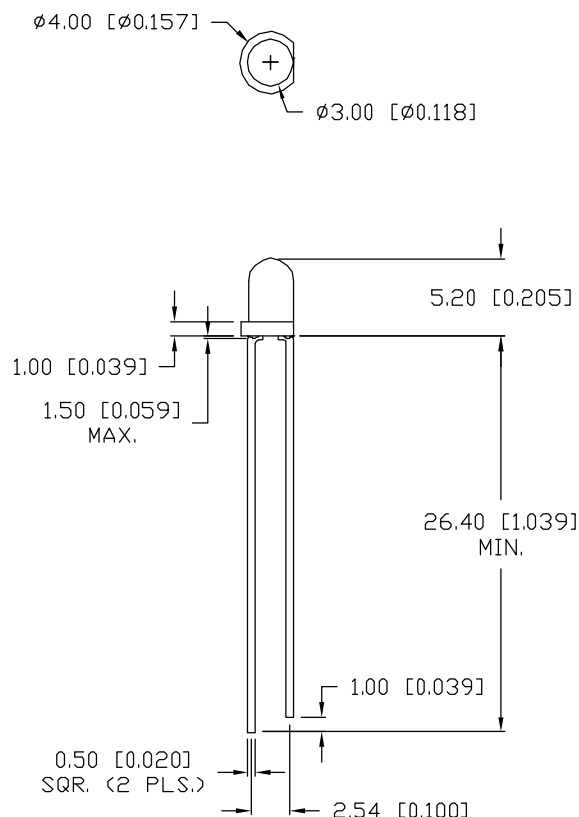
UNCONTROLLED DOCUMENT

PART NUMBER  
OED-EL3054B30

REV.

B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10BRDR.                     | 1.7.98   |
| B    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 12.30.02 |

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

| PARAMETER                           | MIN | TYP        | MAX | UNITS   | TEST COND           |
|-------------------------------------|-----|------------|-----|---------|---------------------|
| PEAK WAVELENGTH                     |     | 940        |     | nm      |                     |
| SPECTRAL BANDWIDTH                  |     | 45         |     | nm      |                     |
| FORWARD VOLTAGE                     |     | 1.2        | 1.5 | $V_f$   |                     |
| REVERSE VOLTAGE                     |     |            | 5.0 | $V_r$   | $I_r=10\mu\text{A}$ |
| RADIANT INTENSITY                   | 4.0 | 5.6        |     | mW/SR   | $I_f=20\text{mA}$   |
| HALF ANGLE                          |     | $\pm 17.5$ |     | degrees |                     |
| EPOXY LENS FINISH: BLUE 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 $25^\circ\text{C}$ | -1.6       | mW/ $^\circ\text{C}$ |
| OPERATING TEMP.                | -40 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=+DECIMAL PRECISION MAX=+0.00 -DECIMAL PRECISION

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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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3mm, 940nm INFRARED EMITTER, BLUE TRANSPARENT LENS.

DRAWN BY:

BC

CHECKED BY:

APPROVED BY:

DATE: 5.21.97

PAGE: 1 OF 1

SCALE: N/A