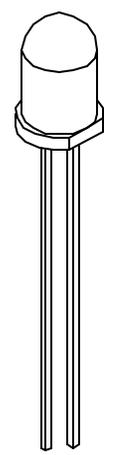
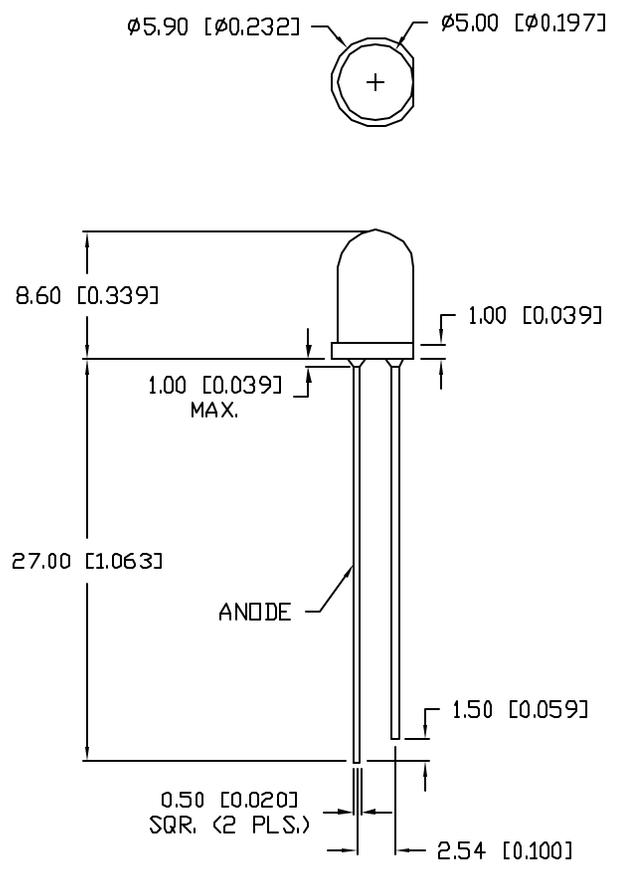


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|               |                                     |         |
|---------------|-------------------------------------|---------|
| PART NUMBER   |                                     | REV.    |
| SSL-LX5093BHD |                                     | B       |
| REV.          | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A             | REDRAWN.                            | 5.13.93 |
| B             | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 5.29.01 |



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

| PARAMETER           | MIN          | TYP | MAX  | UNITS    | TEST COND                   |
|---------------------|--------------|-----|------|----------|-----------------------------|
| PEAK WAVELENGTH     |              | 700 |      | nm       |                             |
| FORWARD VOLTAGE     |              | 3.0 | 14.0 | $V_f$    |                             |
| BLINKING FREQUENCY: |              | 1.5 |      | Hz       | $V_f=14.0, I_f=70\text{mA}$ |
|                     |              | 2.5 |      | Hz       | $V_f=3.0, I_f=6\text{mA}$   |
| AXIAL INTENSITY     |              | 5   |      | mcd      | $V_f=9.0$                   |
| VIEWING ANGLE       |              | 60  |      | 2x theta |                             |
| EMITTED COLOR:      | RED          |     |      |          |                             |
| EPOXY LENS FINISH:  | RED DIFFUSED |     |      |          |                             |

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

| PARAMETER                        | MAX        | UNITS                  |
|----------------------------------|------------|------------------------|
| PEAK FORWARD CURRENT*            | 70         | mA                     |
| STEADY CURRENT                   | 20         | mA                     |
| POWER DISSIPATION                | 105        | 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             |

\*  $t < 10\mu\text{s}$

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

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|      |               |
|------|---------------|
| REV. | PART NUMBER   |
| B    | SSL-LX5093BHD |

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T-5mm (T-1 3/4) BLINKING 700nm RED LED,  
 RED DIFFUSED LENS.

**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: | CHECKED BY: | APPROVED BY: | DATE: 5.13.93 |
| BC        |             |              | PAGE: 1 OF 1  |
|           |             |              | SCALE: N/A    |

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