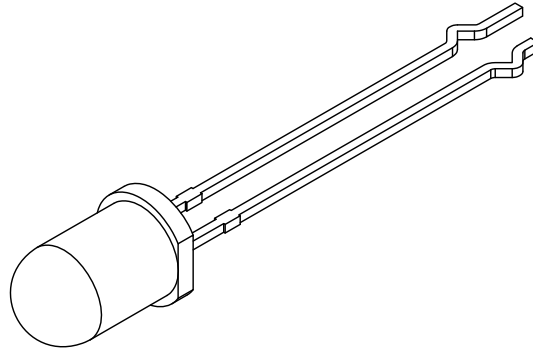
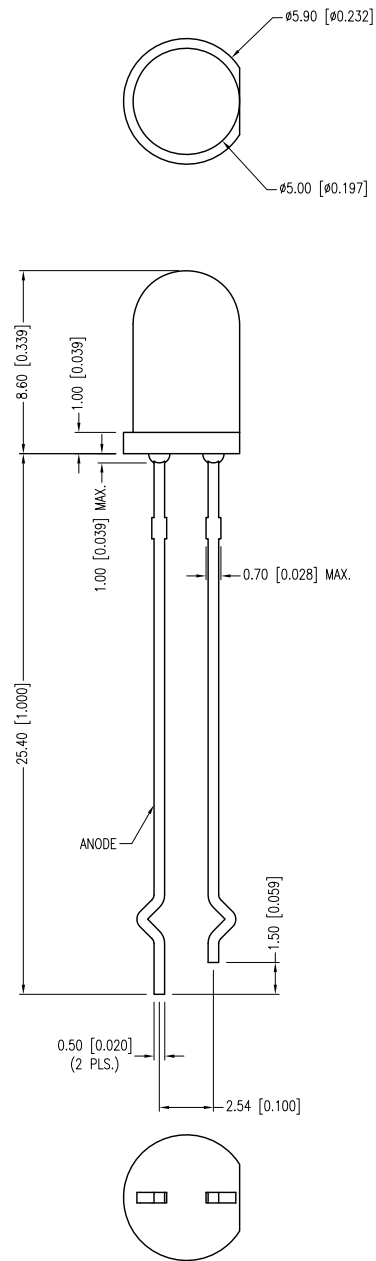


|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SSL-LX50931D-42181                  | REV. | B    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 10.19.06    | E.C.N. #11148.                      |      | A    |
| 02.13.12    | E.C.N. #10BRDR & REDRAWN.           |      | B    |



| ELECTRO-OPTICAL CHARACTERISTICS $T_a=25^\circ\text{C}$ $I_f=20\text{mA}$ |              |     |     |                |                      |
|--------------------------------------------------------------------------|--------------|-----|-----|----------------|----------------------|
| PARAMETER                                                                | MIN          | TYP | MAX | UNITS          | TEST COND            |
| PEAK WAVELENGTH                                                          |              | 635 |     | nm             |                      |
| FORWARD VOLTAGE                                                          |              | 2.0 | 2.5 | V <sub>f</sub> |                      |
| REVERSE VOLTAGE                                                          | 5.0          |     |     | V <sub>r</sub> | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY                                                          |              | 40  |     | mcd            | $I_f=20\text{mA}$    |
| VIEWING ANGLE                                                            |              | 60  |     | 2x theta       |                      |
| EMITTED COLOR:                                                           | RED          |     |     |                |                      |
| EPOXY LENS FINISH:                                                       | RED DIFFUSED |     |     |                |                      |

| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 150        | mA    |
| STEADY CURRENT                   | 30         | mA    |
| POWER DISSIPATION                | 105        | mW    |
| DERATE FROM 25°C                 | -1.2       | mW/°C |
| OPERATING TEMP.                  | -40 TO +85 | °C    |
| STORAGE TEMP.                    | -40 TO +85 | °C    |
| SOLDERING TEMP.                  | +260       | °C    |
| 2.0mm FROM BODY                  | 3          | SEC.  |

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

\*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=  $+\frac{\text{DECIMAL PRECISION}}{-0.00}$  MAX=  $+\frac{0.00}{-\text{DECIMAL PRECISION}}$

UNCONTROLLED DOCUMENT