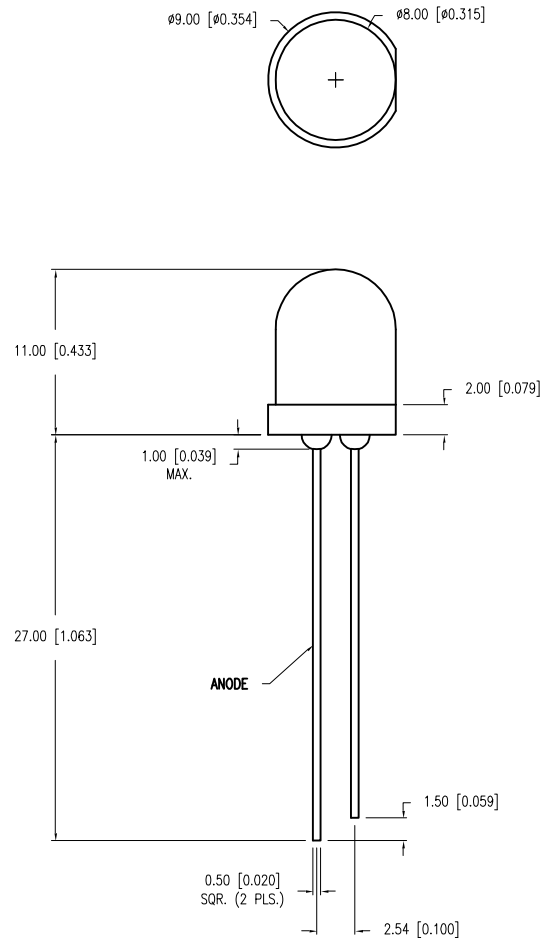


| PART NUMBER | SSL-LX80113ID                       | REV. | B    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 02.14.01    | E.C.N. #10BRDR. & REDRAWN.          |      | A    |
| 11.13.06    | E.C.N. #11148.                      |      | 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 | $V_f$    |                      |
| REVERSE VOLTAGE                                                          | 5.0          |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY                                                          |              | 15  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE                                                            |              | 60  |     | 2x theta |                      |
| EMITTED COLOR:                                                           | RED          |     |     |          |                      |
| EPOXY LENS FINISH:                                                       | RED DIFFUSED |     |     |          |                      |

| LIMITS OF SAFE OPERATION AT $25^\circ\text{C}$ |            |                      |
|------------------------------------------------|------------|----------------------|
| PARAMETER                                      | MAX        | UNITS                |
| PEAK FORWARD CURRENT*                          | 150        | mA                   |
| STEADY CURRENT                                 | 30         | 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>+DECIMAL PRECISION</sup> -0.00 MAX= <sup>+0.00</sup> -DECIMAL PRECISION



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T-8mm 635nm RED LED, T-8mm 635nm RED LED,

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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|        |           |           |     |
|--------|-----------|-----------|-----|
| DATE:  | 11.13.06  | DRAWN BY: | JC  |
| PAGE:  | 1 OF 1    | CHKD BY:  | --  |
| SCALE: |           | APRVD BY: | --  |
| UNIT:  | mm [INCH] |           | (P) |