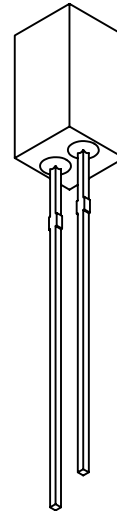
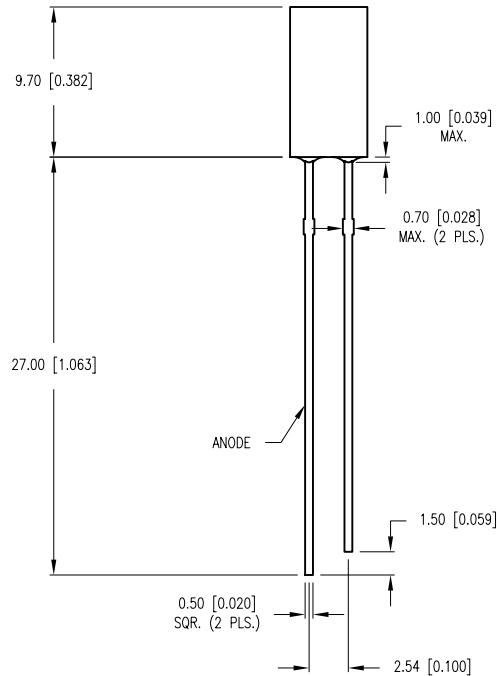
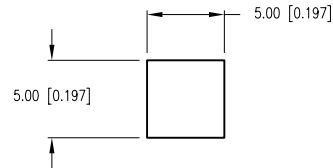


|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SSL-LX551031D-FL                    | REV. | C    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 10.23.00    | E.C.N. #10BRDR. & REDRAWN IN 3D.    |      | A    |
| 11.09.06    | E.C.N. #11148                       |      | B    |
| 10.04.11    | E.C.N. #10BRDR.                     |      | C    |



| 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          |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY  |              | 15  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE  |              | 110 |     | 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       | $\text{mW}/^{\circ}\text{C}$ |
| 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.=  $^{+0.00}_{-0.00}$  DECIMAL PRECISION MAX.=  $^{+0.00}_{-0.00}$  DECIMAL PRECISION



290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
FAX: +1.847.359.6538  
WEB: WWW.LUMEX.COM

5mm SQUARE, 635nm RED LED, RED DIFFUSED LENS.

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

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|        |           |           |    |
|--------|-----------|-----------|----|
| DATE:  | 10.04.11  | DRAWN BY: | AB |
| PAGE:  | 1 OF 1    | CHKD BY:  | SS |
| SCALE: | NTS       | APRVD BY: | KF |
| UNIT:  | mm [INCH] |           | Ⓟ  |