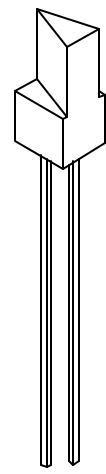
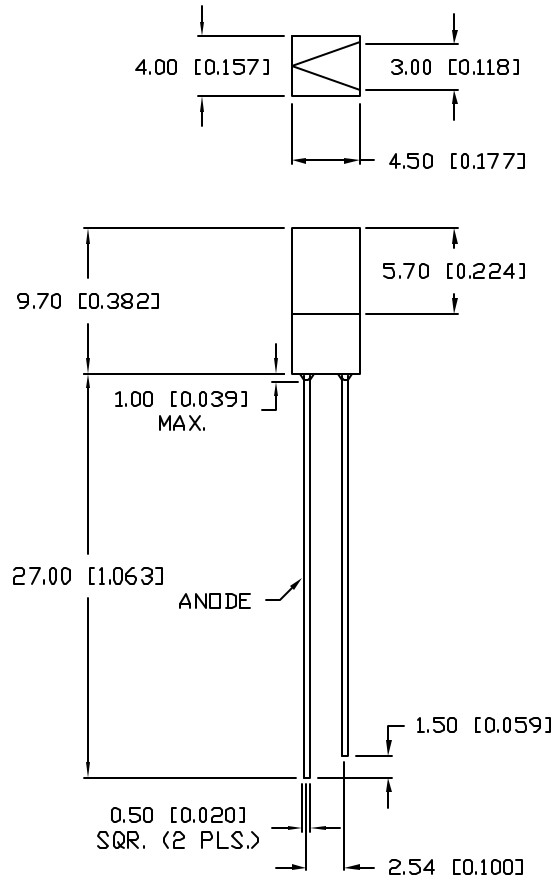


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PART NUMBER  
SSL-LX3T4531D

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE   |
|------|-------------------------------------|--------|
| A    | E.C.N. #10159.                      | 5.3.96 |
| B    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 7.2.01 |



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    |              | 6   |     | med        | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |              | 100 |     | $2x$ 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= <sup>+0.00</sup> -0.00 DECIMAL PRECISION MAX= <sup>+0.00</sup> -0.00 DECIMAL PRECISION

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|           |                              |
|-----------|------------------------------|
| REV.<br>B | PART NUMBER<br>SSL-LX3T4531D |
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290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

4.5mm x 3mm TRIANGULAR LED,  
635nm 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:<br>BC | CHECKED BY: | APPROVED BY: | DATE: 11.17.95<br>PAGE: 1 OF 1<br>SCALE: N/A |
|-----------------|-------------|--------------|--|

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