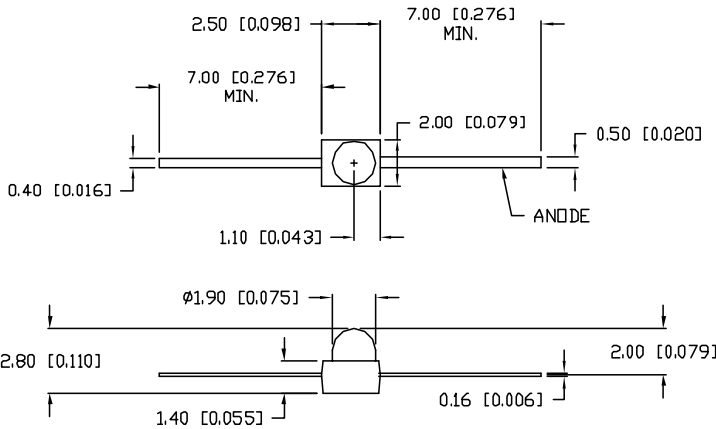


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LXA228SRC

REV.  
D

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10541.                      | 8.3.99   |
| B    | E.C.N. #10743.                      | 5.31.01  |
| C    | E.C.N. #10784.                      | 9.7.01   |
| D    | E.C.N. #11148.                      | 11.15.06 |



▣ ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=20\text{mA}$

| PARAMETER          | MIN         | TYP | MAX | UNITS          | TEST COND             |
|--------------------|-------------|-----|-----|----------------|-----------------------|
| PEAK WAVELENGTH    |             | 660 |     | nm             |                       |
| FORWARD VOLTAGE    |             | 1.7 | 2.2 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE    | 4.0         |     |     | V <sub>r</sub> | I <sub>r</sub> =100μA |
| AXIAL INTENSITY    |             | 600 |     | md             | I <sub>f</sub> =20mA  |
| VIEWING ANGLE      |             | 25  |     | 2x theta       |                       |
| EMITTED COLOR:     | RED         |     |     |                |                       |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |                |                       |

▣ LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 160        | mA         |
| STEADY CURRENT           | 25         | mA         |
| POWER DISSIPATION        | 60         | mW         |
| DERATE FROM 25°C         | -1.2       | mW/°C      |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2mm FROM BODY            |            | 3 SEC. MAX |

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



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= -0.000, MAX= +0.000 DECIMAL PRECISION

|           |                              |
|-----------|------------------------------|
| REV.<br>D | PART NUMBER<br>SSL-LXA228SRC |
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T-2.5mm AXIAL LEADED LED,  
660nm SUPER RED LED, WATER CLEAR 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>JC | CHECKED BY: | APPROVED BY: | DATE: 11.15.06<br>PAGE: 1 OF 1<br>SCALE: N/A |
|-----------------|-------------|--------------|--|