

UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LXA1725SIC-TR

REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11148                       | 11.16.06 |

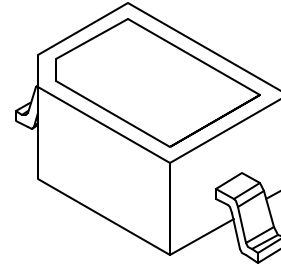
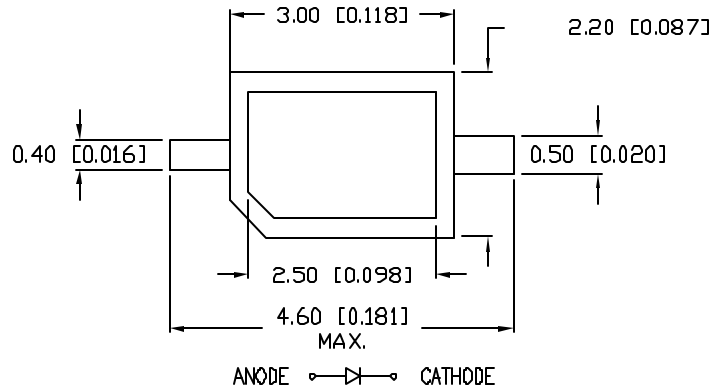
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=20\text{mA}$

| PARAMETER          | MIN         | TYP | MAX | UNITS      | TEST COND            |
|--------------------|-------------|-----|-----|------------|----------------------|
| PEAK WAVELENGTH    |             | 636 |     | nm         |                      |
| FORWARD VOLTAGE    |             | 2.0 | 2.5 | $V_f$      |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$      | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 100 |     | mcad       | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 130 |     | $2x$ theta |                      |
| EMITTED COLOR:     | RED         |     |     |            |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |            |                      |

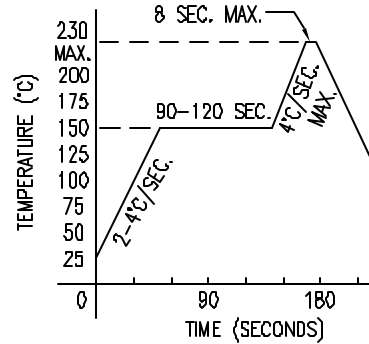
LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

| 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 | $^{\circ}\text{C}$           |

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



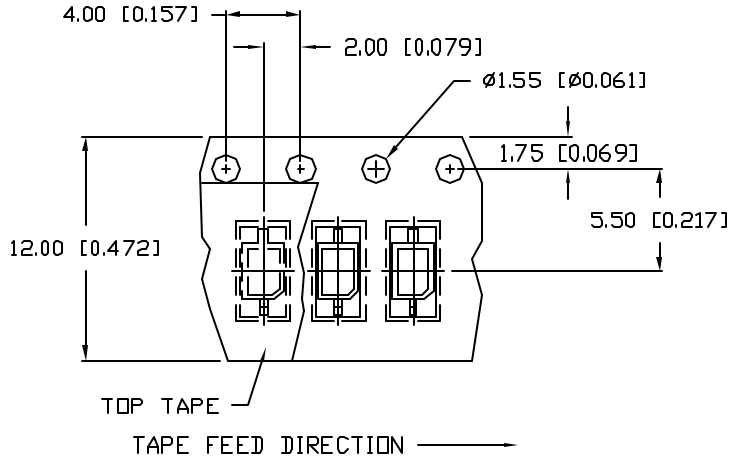
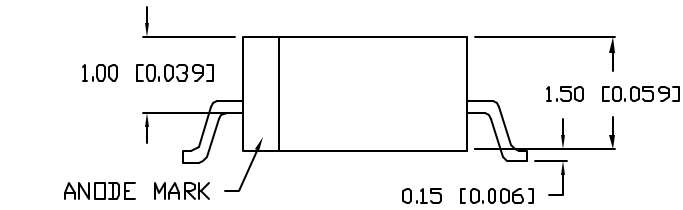
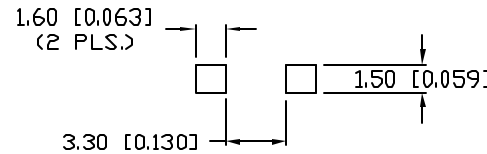
REFLOW PROFILE



NOTES:

- SUPPLIED ON 12mm TAPE, 2,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE SPROCKET HOLE.

RECOMMENDED SOLDER PAD LAYOUT



\*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.=+DECIMAL PRECISION -0.00, MAX.=+0.00 -DECIMAL PRECISION

**CAUTION: MOISTURE SENSITIVE DEVICE**  
 1. SHELF LIFE IN SEALED BAG:  
 12 MONTHS AT  $<40^{\circ}\text{C}$  AND  $<90\%$  RELATIVE HUMIDITY (RH).  
 2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE MOUNTED WITHIN 48 HOURS OR STORED AT  $<30\%$  RH.



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AXIAL LEAD WITH FLAT TOP AND MOLDED REFLECTOR,  
636nm SUPER HIGH INTENSITY RED LED, WATER CLEAR LENS.

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**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.

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|-----------------|-------------|--------------|----------------|
| DRAWN BY:<br>jc | CHECKED BY: | APPROVED BY: | DATE: 11.16.06 |
|                 |             |              | PAGE: 1 OF 1   |
|                 |             |              | SCALE: N/A     |