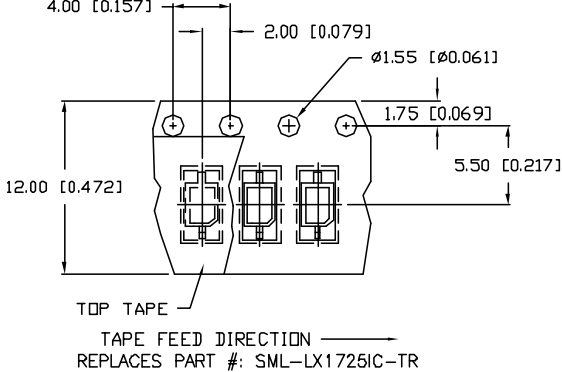
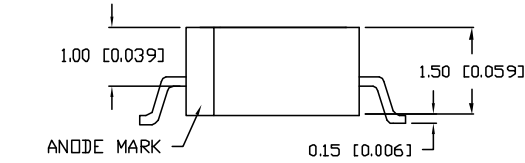
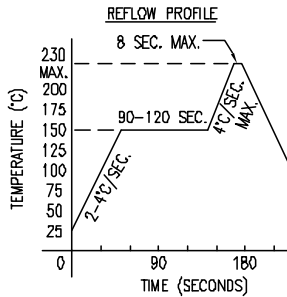
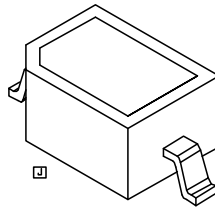
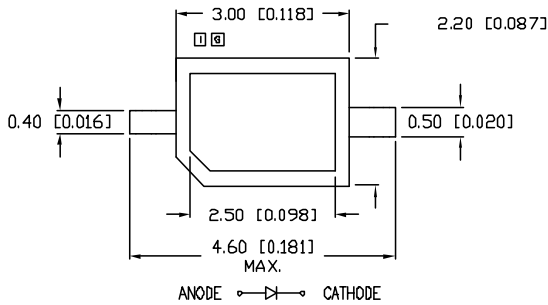


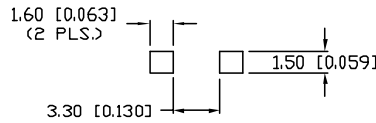
UNCONTROLLED DOCUMENT



NOTES:

1. SUPPLIED ON 12mm TAPE, 2,000 PIECES PER REEL.
2. THE CATHODE IS ORIENTED TOWARDS THE TAPE 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).

PART NUMBER  
SSL-LXA1725IC-TR

REV.  
L

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | CHANGED PART NUMBER.                | 7.24.95  |
| B    | E.C.N. #10117.                      | 1.29.96  |
| C    | E.C.N. #10130.                      | 2.29.96  |
| D    | E.C.N. #10209.                      | 7.9.96   |
| E    | E.C.N. #10275.                      | 11.22.96 |
| F    | E.C.N. #10BRDR. & REDRAWN.          | 5.27.98  |
| G    | E.C.N. #10462. & #10BRDR.           | 10.8.98  |
| H    | E.C.N. #10543.                      | 8.11.99  |
| I    | E.C.N. #10601.                      | 3.13.00  |
| J    | E.C.N. #10695                       | 1.5.01   |
| K    | E.C.N. #10761.                      | 6.18.01  |
| L    | 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    |             | 635 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.0 | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 12  |     | 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°C

| PARAMETER                | MAX        | UNITS |
|--------------------------|------------|-------|
| PEAK FORWARD CURRENT*    | 160        | mA    |
| STEADY CURRENT           | 30         | mA    |
| POWER DISSIPATION        | 100        | mW    |
| DERATE FROM 25°C         | -1.2       | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C    |

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

**CAUTION: MOISTURE SENSITIVE DEVICE**  
 1. SHELF LIFE IN SEALED BAG:  
 12 MONTHS AT <40°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.



UNCONTROLLED DOCUMENT

|           |                                 |
|-----------|---------------------------------|
| REV.<br>L | PART NUMBER<br>SSL-LXA1725IC-TR |
|-----------|---------------------------------|

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AXIAL LEAD WITH FLAT TOP AND MOLDED REFLECTOR,  
 635nm RED LED, WATER CLEAR LENS, TAPE AND REEL.

**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: 11.16.06<br>PAGE: 1 OF 1<br>SCALE: N/A |
|-----------------|-------------|--------------|--|