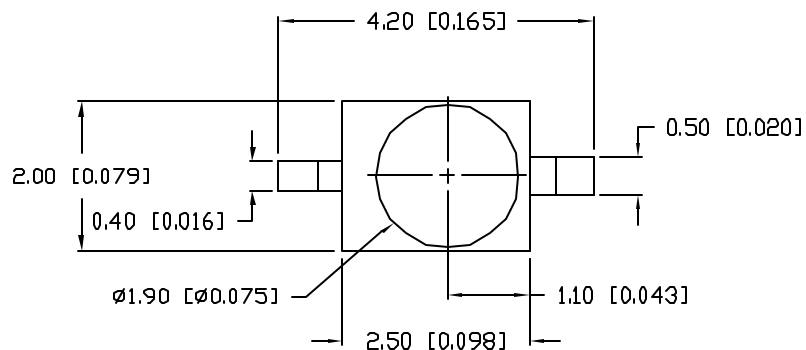
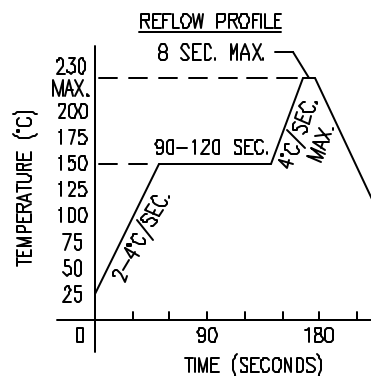
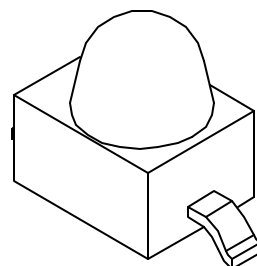
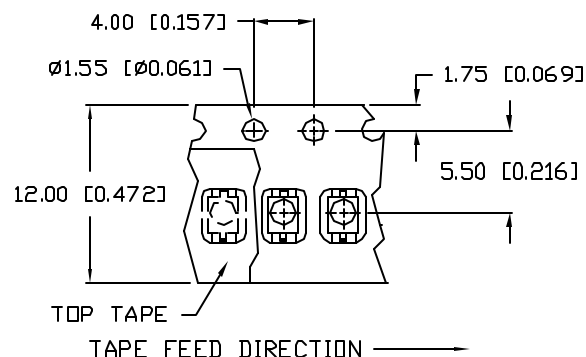
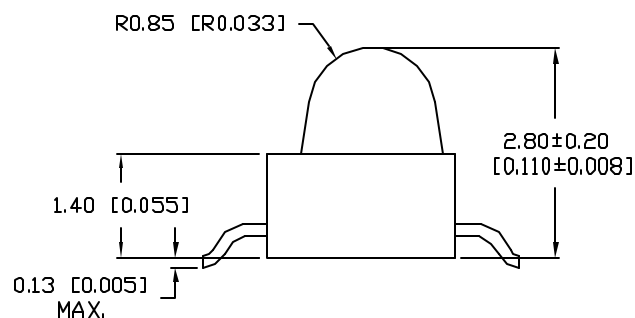


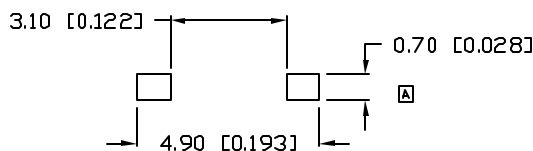
# UNCONTROLLED DOCUMENT



ANODE  CATHODE



## RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER  
SSL-LXA228SIC-TR11

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11146.                      | 7.8.04   |
| B    | 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    |             | 636 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.0 | 2.6 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 475 |     | mcd      | $I_f=20\text{mA}$    |
| 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        | 30         | mA    |
| POWER DISSIPATION     | 100        | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -30 TO +85 | °C    |
| STORAGE TEMP.         | -40 TO +85 | °C    |

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

## NOTES:

- 1,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



\*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

REV.  
B

PART NUMBER  
SSL-LXA228SIC-TR11

AXIAL LED, 636nm AlInGaP RED LED,  
WATER CLEAR LENS, GULL WING LEADS, TAPE AND REEL.

**CONFIDENTIAL INFORMATION**  
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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.

**LUMEX**  
INCORPORATED

290 E. HELLEN ROAD  
PALATINE, ILLINOIS 60067  
PHONE: (847) 359-2790  
WEB: <http://www.lumex.com>

|                 |             |              |                |
|-----------------|-------------|--------------|----------------|
| DRAWN BY:<br>JC | CHECKED BY: | APPROVED BY: | DATE: 11.15.06 |
|                 |             |              | PAGE: 1 OF 1   |
|                 |             |              | SCALE: N/A     |

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