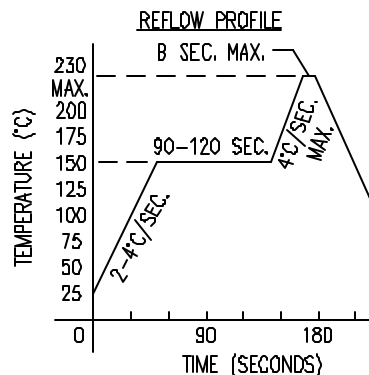
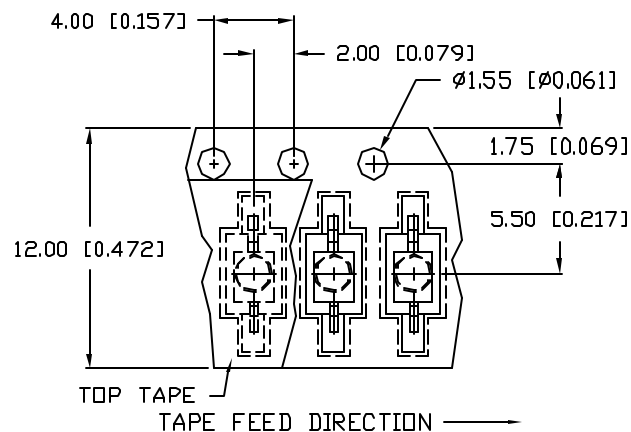
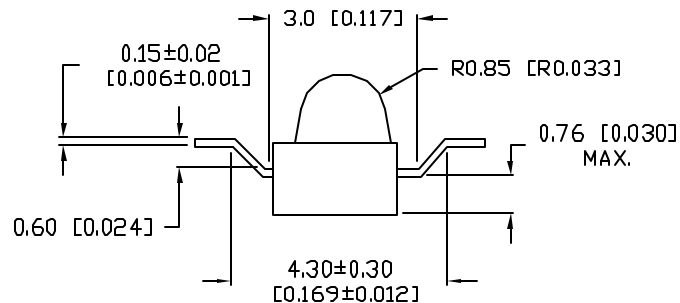
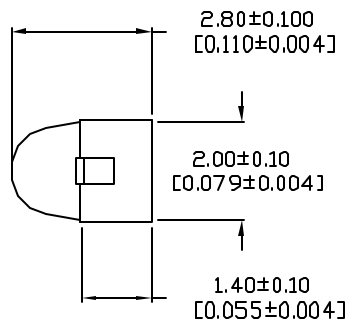
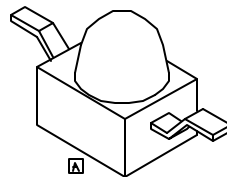
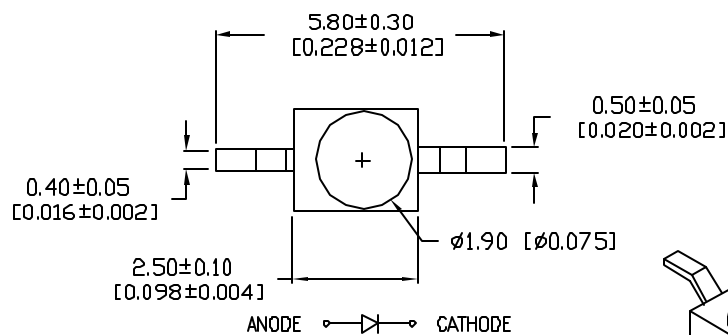
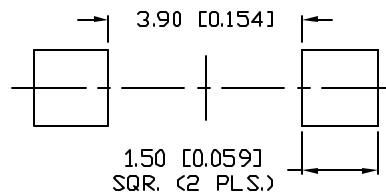


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RECOMMENDED SOLDER PAD LAYOUT



| PART NUMBER       |                                     | REV.     |
|-------------------|-------------------------------------|----------|
| SSL-LXA228YC-TR31 |                                     | C        |
| REV.              | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A                 | E.C.N. #10695. &10BRDR.             | 1.5.01   |
| B                 | E.C.N. #10762.                      | 6.18.01  |
| C                 | 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    |             | 585 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.0 | 2.8 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 30  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 25  |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW      |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                      |

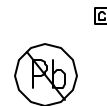
LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$  PER DIE

| PARAMETER                      | MAX        | UNITS |
|--------------------------------|------------|-------|
| PEAK FORWARD CURRENT*          | 160        | mA    |
| STEADY CURRENT                 | 20         | mA    |
| POWER DISSIPATION              | 85         | mW    |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/°C |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | °C    |
| SOLDERING TEMP.                | +260       | °C    |
| 2.0mm FROM BODY                | 3 SEC. MAX |       |

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

## NOTES:

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



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.

C

PART NUMBER

SSL-LXA228YC-TR31

585nm YELLOW, AXIAL LED,  
 WATER CLEAR LENS, Z BEND, 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.



290 E. HELEN ROAD  
 PALATINE, IL 60067-6976  
 PHONE: +1.847.359.2790  
 US WEB: www.lumex.com  
 TW WEB: www.lumex.com.tw

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 11.15.06

PAGE: 1 OF 1

SCALE: N/A