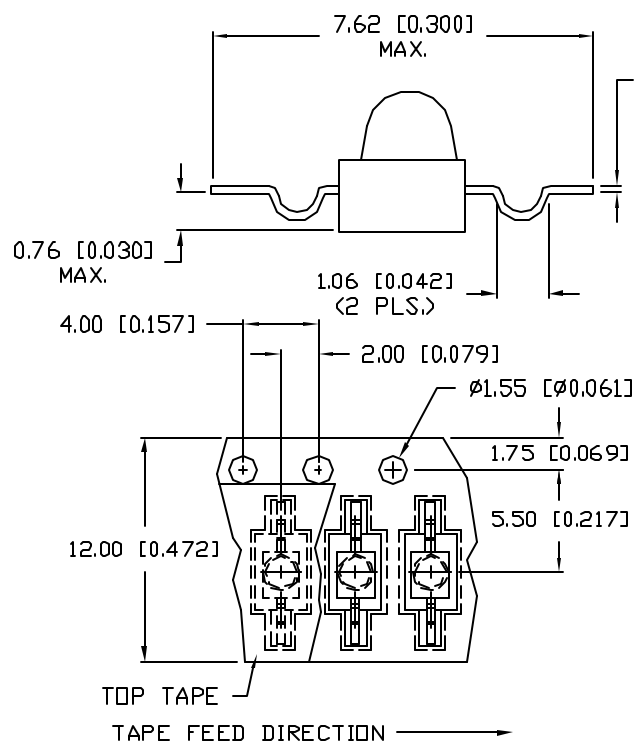
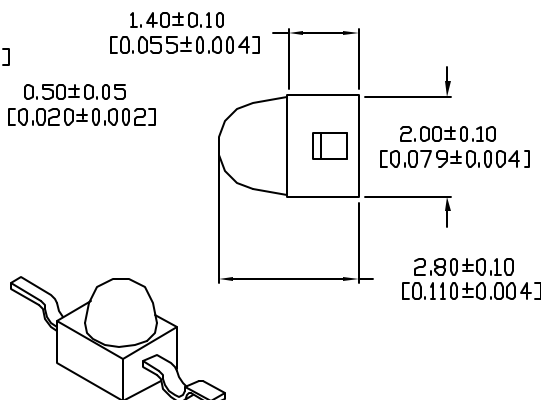
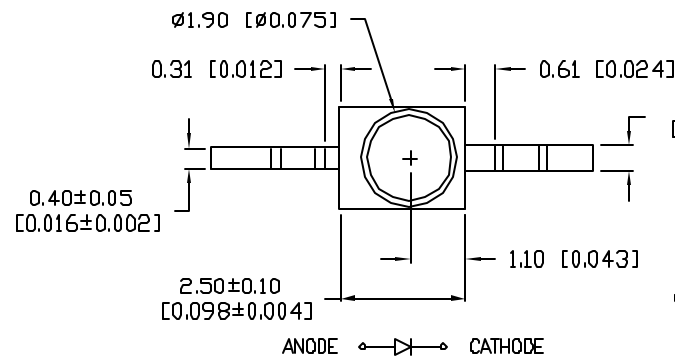
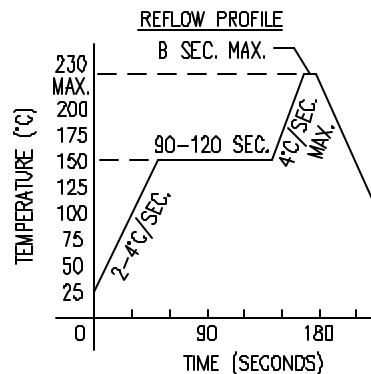


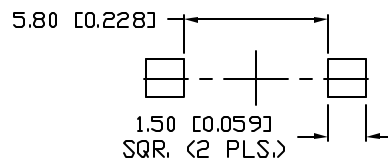
UNCONTROLLED DOCUMENT



$0.15 \pm 0.02$   
[0.006  $\pm$  0.001]



## RECOMMENDED SOLDER PAD LAYOUT

PART NUMBER  
SSL-LXA228SYC-TR21

REV.

A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11148                       | 11.15.06 |

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

| PARAMETER          | MIN         | TYP | MAX | UNITS          | TEST COND              |
|--------------------|-------------|-----|-----|----------------|------------------------|
| PEAK WAVELENGTH    |             | 590 |     | nm             |                        |
| FORWARD VOLTAGE    |             | 2.0 | 2.5 | V <sub>f</sub> |                        |
| REVERSE VOLTAGE    | 5.0         |     |     | V <sub>r</sub> | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 300 |     | mod            | $I_f =$                |
| VIEWING ANGLE      |             | 25  |     | 2x theta       |                        |
| EMITTED COLOR:     | YELLOW      |     |     |                |                        |
| 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 (±0.038), 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.

A

PART NUMBER

SSL-LXA228SYC-TR21

590nm AlInGaP YELLOW AXIAL LEADED LED,  
YOKE LEAD, 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.



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

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