

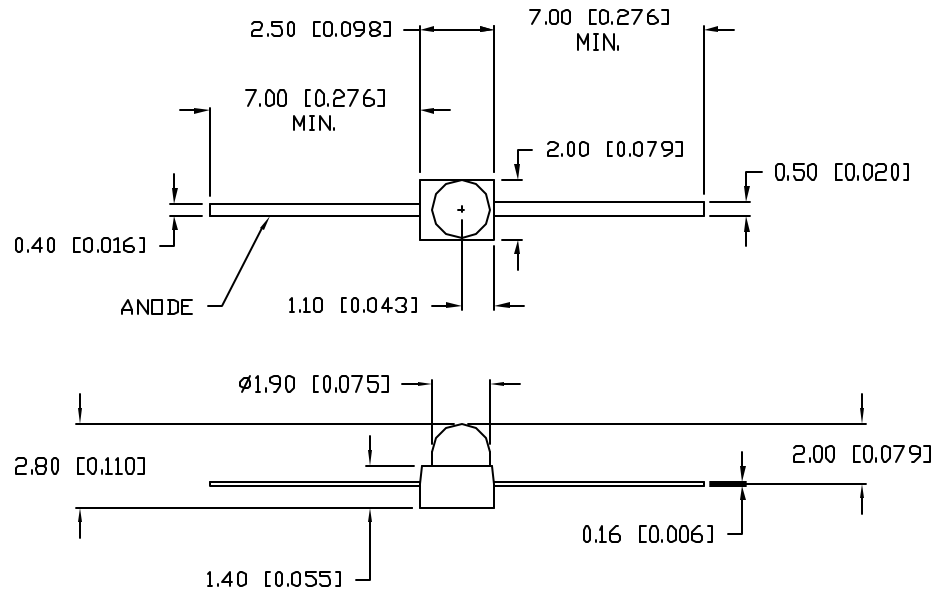


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LXA228SYC

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10541.                      | 8.3.99   |
| 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    |             | 585 |     | nm             |                       |
| FORWARD VOLTAGE    |             | 2.0 | 2.5 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE    | 5.0         |     |     | V <sub>r</sub> | I <sub>r</sub> =100μA |
| AXIAL INTENSITY    |             | 300 |     | mcd            | I <sub>f</sub> =20mA  |
| 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, STORAGE TEMP. | -40 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2mm FROM BODY            |            | 3 SEC. MAX |

\* t<10μS



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\*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.<br>B   | PART NUMBER<br>SSL-LXA228SYC |
| T-2.5mm AXIAL LEADED LED<br>585nm SUPER YELLOW 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: 8.3.99    |             | PAGE: 1 OF 1  |
| SCALE: N/A      |             |   |

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