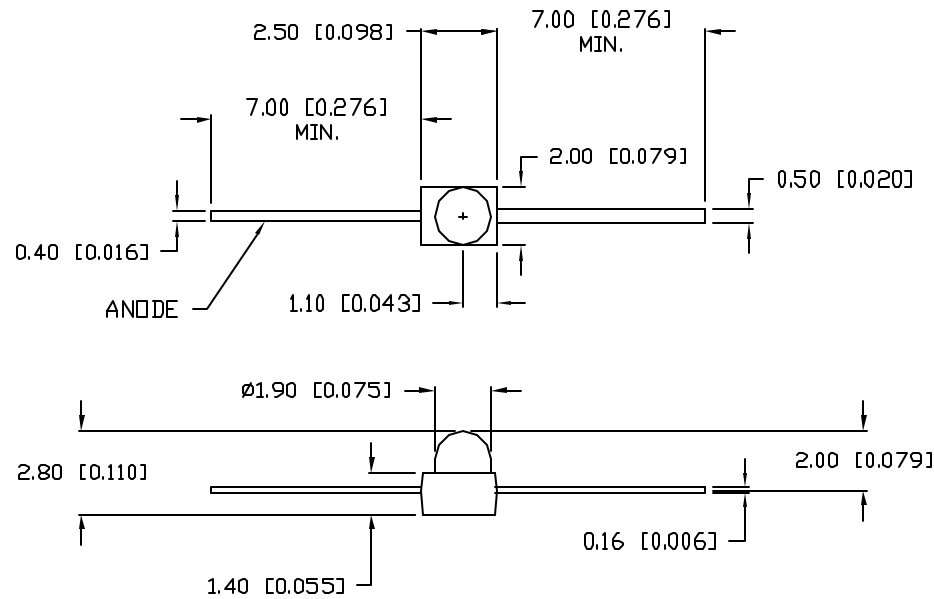


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LXA228YD

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10BRDR.                     | 6.5.02   |
| 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 (YELLOW) |     | nm         |                      |
| FORWARD VOLTAGE    |                 | 2.1          | 2.8 | $V_f$      |                      |
| REVERSE VOLTAGE    | 5.0             |              |     | $V_r$      | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |                 | 12           |     | mcad       | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                 | 50           |     | $2x$ theta |                      |
| EMITTED COLOR:     | YELLOW          |              |     |            |                      |
| EPOXY LENS FINISH: | YELLOW DIFFUSED |              |     |            |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 160        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 100        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +260       | $^\circ\text{C}$     |
|                                |            | 3 SEC. MAX           |

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



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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-LXA228YD |
| 1-2.5mm AXIAL LEADED LED,<br>585nm YELLOW, YELLOW DIFFUSED 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: 11.15.06 |
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