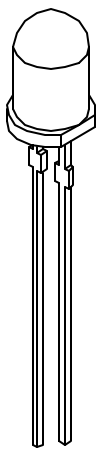
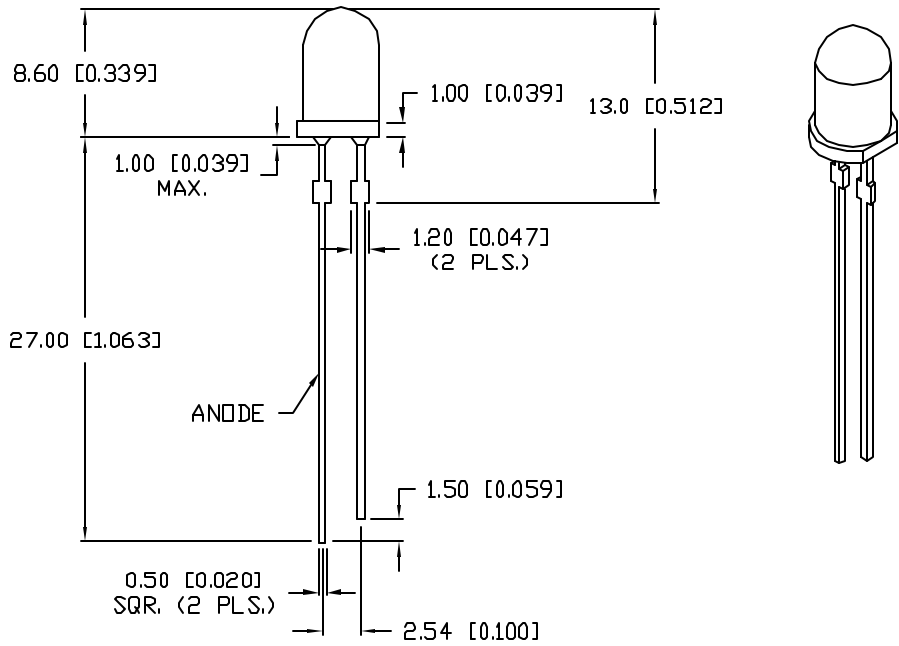
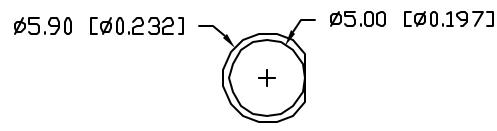


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|                 |                                     |          |
|-----------------|-------------------------------------|----------|
| PART NUMBER     |                                     | REV.     |
| SSL-LX5093YC-13 |                                     | B        |
| REV.            | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A               | E.C.N. #10BRDR. & REDRAWN IN 3D     | 5.25.01  |
| B               | E.C.N. #11148                       | 10.30.06 |



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    |             | 2.1 | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 40  |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 30  |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW      |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 105        | 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       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                |            | 3 SEC. MAX           |

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



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION, MAX= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION

|      |                 |
|------|-----------------|
| REV. | PART NUMBER     |
| B    | SSL-LX5093YC-13 |

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T-5mm (T-1 3/4) 585nm YELLOW LED,  
 WATER CLEAR LENS, WITH STANDOFFS.

**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.

|           |             |              |                |
|-----------|-------------|--------------|----------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: 10.30.06 |
| JC        |             |              | PAGE: 1 OF 1   |
|           |             |              | SCALE: N/A     |