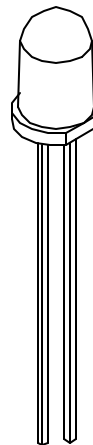
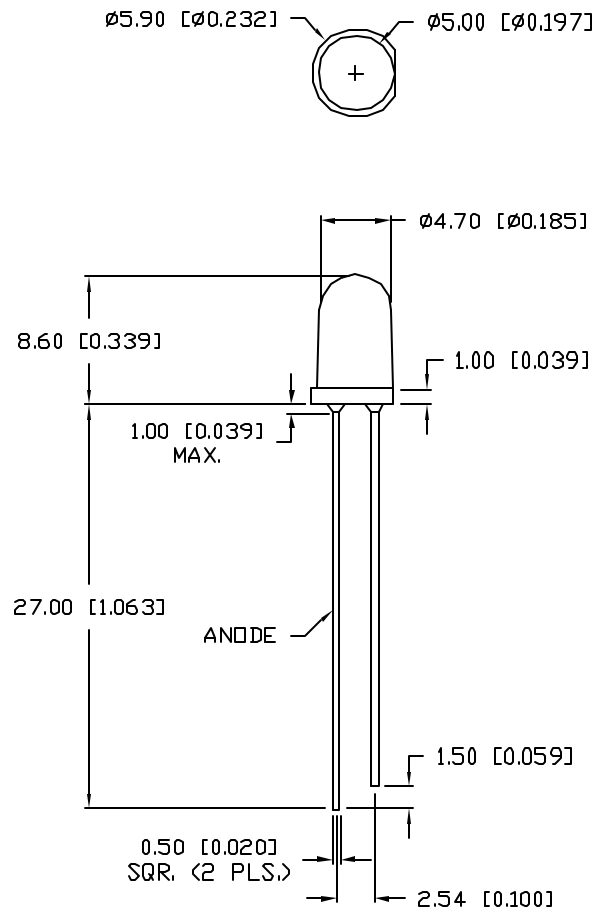


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PART NUMBER  
SSL-LX5093XYCREV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 5.18.01  |
| 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    |             | 590  |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.1  | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |      |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 1300 |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 20   |     | 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= $\pm 1$  ( $\pm 0.039$ ), X.X= $\pm 0.5$  ( $\pm 0.020$ ), X.XX= $\pm 0.25$  ( $\pm 0.010$ ), X.XXX= $\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ), MIN.= $\frac{+0.00}{-0.00}$  DECIMAL PRECISION MAX.= $\frac{+0.00}{-0.00}$  DECIMAL PRECISION

REV.

B

PART NUMBER

SSL-LX5093XYC

T-5mm (T-1 3/4) 590nm SUPER YELLOW LED,  
WATER CLEAR TAPERED LENS.

## 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.



DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 10.30.06

PAGE: 1 OF 1

SCALE: N/A