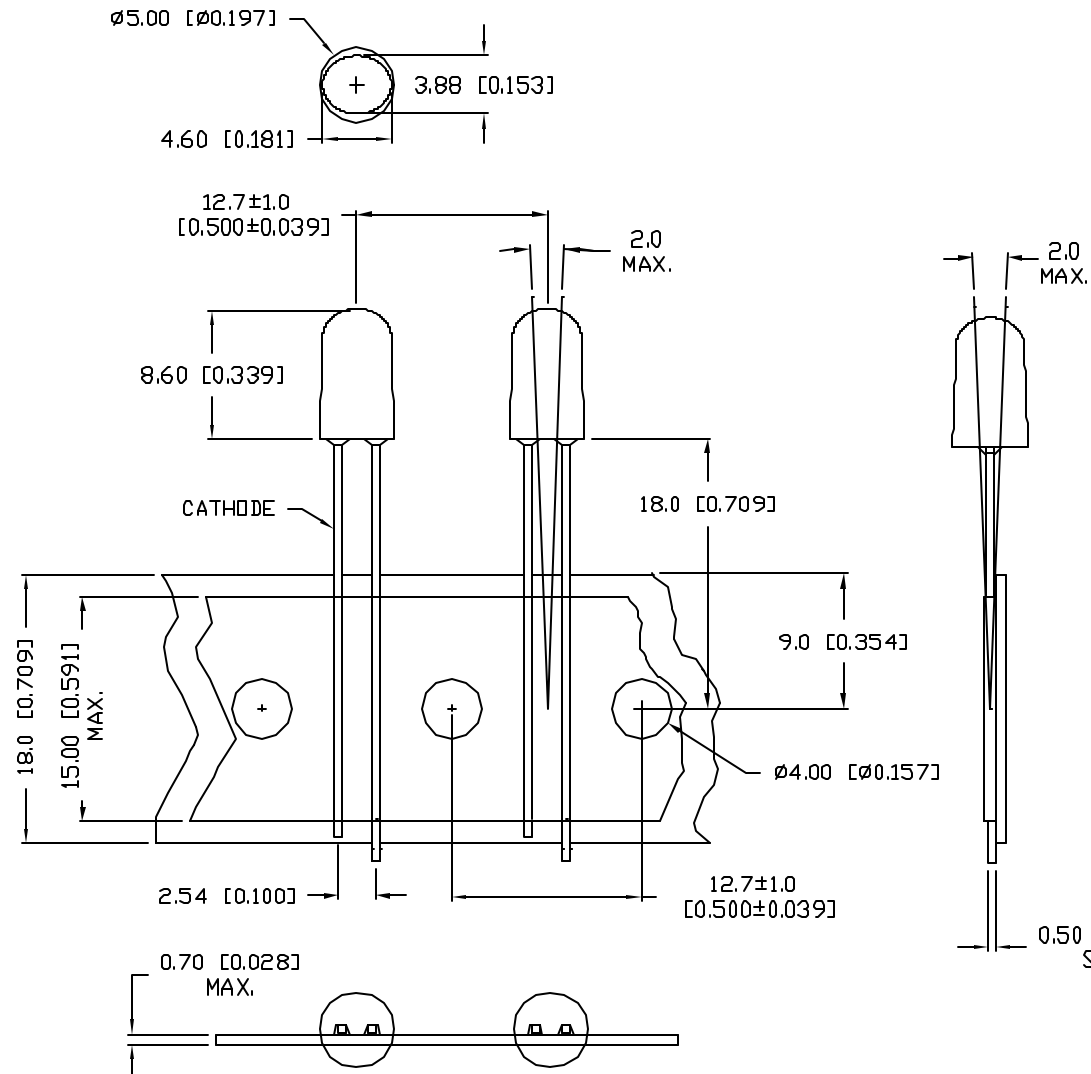


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX509E3SYC-TRREV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11148                       | 11.01.06 |

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    |             | 2.0 | 2.5 | $V_f$    |                     |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=10\mu\text{A}$ |
| AXIAL INTENSITY    |             | 750 |     | mcd      | $I_f=20\text{mA}$   |
| VIEWING ANGLE X    |             | 50  |     | 2x theta |                     |
| VIEWING ANGLE Y    |             | 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                | 125        | 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             |

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

TAPE FEED DIRECTION →

\*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=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.

A

PART NUMBER

SSL-LX509E3SYC-TR

T-5mm ELLIPTICAL 590nm YELLOW LED,  
WATER CLEAR LENS, 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: 11.01.06 |
|                 |             |              | PAGE: 1 OF 1   |
|                 |             |              | SCALE: N/A     |

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