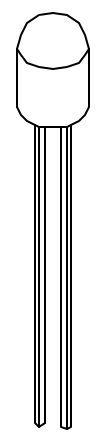
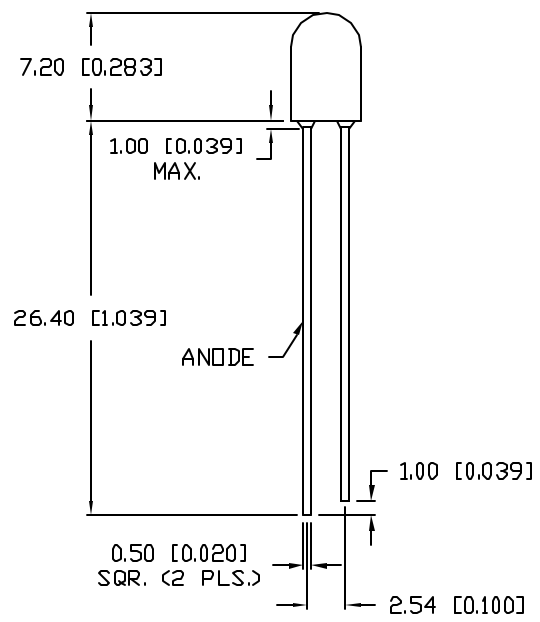
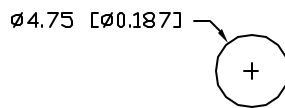


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX507F3AD

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 6.4.01   |
| B    | E.C.N. #11148                       | 11.01.06 |



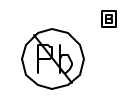
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=20\text{mA}$

| PARAMETER          | MIN            | TYP | MAX | UNITS    | TEST COND            |
|--------------------|----------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |                | 605 |     | nm       |                      |
| FORWARD VOLTAGE    |                | 2.0 | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0            |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |                | 40  |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                | 60  |     | 2x theta |                      |
| EMITTED COLOR:     | AMBER          |     |     |          |                      |
| EPOXY LENS FINISH: | AMBER DIFFUSED |     |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 150        | mA         |
| STEADY CURRENT           | 30         | mA         |
| POWER DISSIPATION        | 105        | mW         |
| DERATE FROM 25°C         | -1.2       | mW/°C      |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2.0mm FROM BODY          |            | 3 SEC. MAX |

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



\*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= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION MAX= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION

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|           |                              |
|-----------|------------------------------|
| REV.<br>B | PART NUMBER<br>SSL-LX507F3AD |
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T-5mm (T-1 3/4) 605nm AMBER LED,  
AMBER DIFFUSED LENS.

**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:<br>JC | CHECKED BY: | APPROVED BY: | DATE: 11.01.06 |
|                 |             |              | PAGE: 1 OF 1   |
|                 |             |              | SCALE: N/A     |