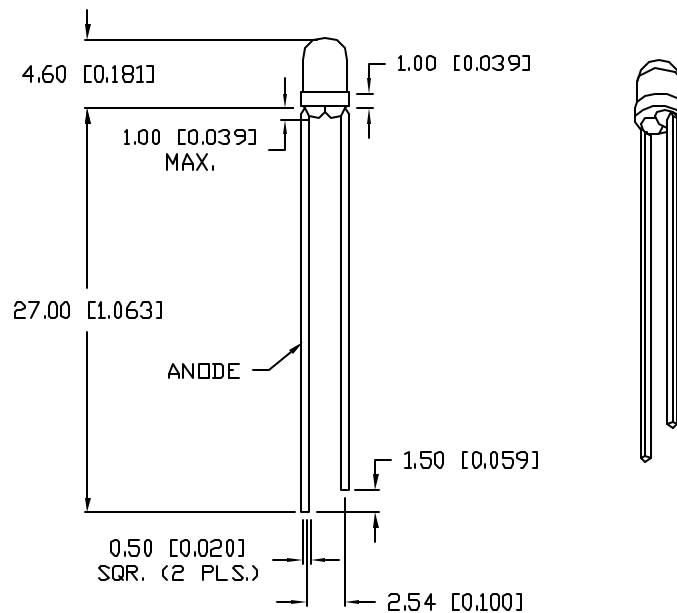
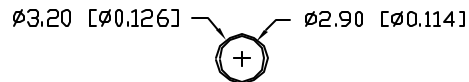


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX3044HDREV.  
E

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | REMOVED FLAT EDGE FROM FLANGE.      | 4.28.92  |
| B    | UPDATED SPECS.                      | 11.15.94 |
| C    | UPDATED VIEW ANGLE.                 | 1.20.95  |
| D    | UPDATED INTENSITY.                  | 2.21.95  |
| E    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 2.16.01  |

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

| PARAMETER          | MIN          | TYP | MAX | UNITS           | TEST COND            |
|--------------------|--------------|-----|-----|-----------------|----------------------|
| PEAK WAVELENGTH    |              | 700 |     | nm              |                      |
| FORWARD VOLTAGE    |              | 2.0 | 2.5 | $V_f$           |                      |
| REVERSE VOLTAGE    | 5.0          |     |     | $V_r$           | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |              | 6   |     | mcd             | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |              | 60  |     | $2\theta$ theta |                      |
| EMITTED COLOR:     | RED          |     |     |                 |                      |
| EPOXY LENS FINISH: | RED DIFFUSED |     |     |                 |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 25         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.6       | 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           |

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

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

REV.  
EPART NUMBER  
SSL-LX3044HDT-3mm (T-1) 700nm RED LED,  
RED 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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PAGE: 1 OF 1

SCALE: N/A

E