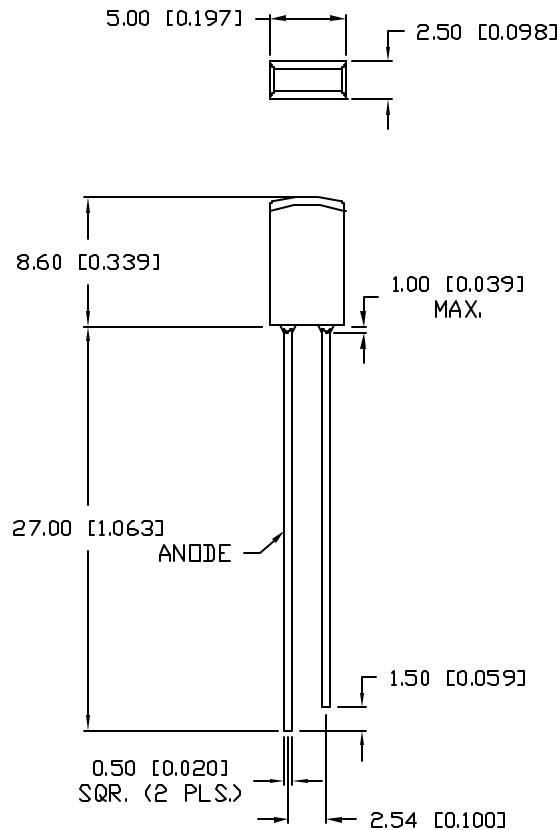


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX2559D3SRDREV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE   |
|------|-------------------------------------|--------|
| A    | E.C.N. #10BRDR.                     | 2.9.98 |
| B    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 7.2.01 |

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

| PARAMETER          | MIN          | TYP | MAX | UNITS    | TEST COND            |
|--------------------|--------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |              | 660 |     | nm       |                      |
| FORWARD VOLTAGE    |              | 1.7 | 2.2 | $V_f$    |                      |
| REVERSE VOLTAGE    | 4.0          |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |              | 60  |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |              | 110 |     | 2x 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                   | 30         | mA                     |
| POWER DISSIPATION                | 100        | 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>+DECIMAL PRECISION</sup>-0.00<sup>-DECIMAL PRECISION</sup> MAX.=<sup>+0.00</sup>-0.00<sup>-DECIMAL PRECISION</sup>

REV.

B

PART NUMBER

SSL-LX2559D3SRD

2.5mm x 5mm RECTANGULAR, ARCHED LED,  
660nm SUPER RED LED, RED DIFFUSED.

## 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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PAGE: 1 OF 1

SCALE: N/A