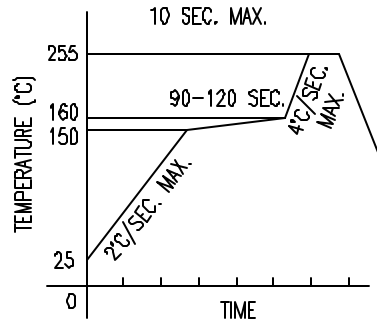
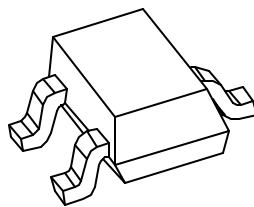
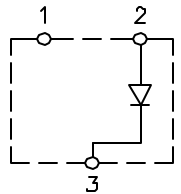
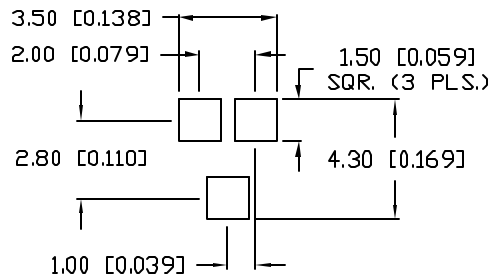
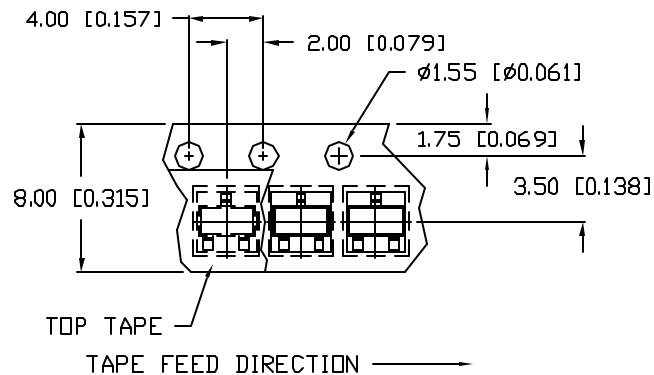


TOP VIEW POLARITY



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.



| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | E.C.N. #10165.                      | 5.21.96 |
| B    | E.C.N. #10BRDR. & #10412.           | 4.28.98 |
| C    | E.C.N. #10752.                      | 5.25.01 |
| D    | E.C.N. #10877.                      | 6.10.02 |
| E    | E.C.N. #10901.                      | 8.22.02 |
| F    | E.C.N. #11148.                      | 2.23.05 |

| ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$ |             |     |     |          |                      |
|--|-------------|-----|-----|----------|----------------------|
| PARAMETER  | MIN         | TYP | MAX | UNITS    | TEST COND            |
| PEAK WAVELENGTH  |             | 635 |     | nm       |                      |
| FORWARD VOLTAGE  |             | 2.0 | 2.8 | $V_f$    |                      |
| REVERSE VOLTAGE  | 5.0         |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY  |             | 10  |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE  |             | 140 |     | 2x theta |                      |
| EMITTED COLOR:   | RED         |     |     |          |                      |
| EPOXY LENS FINISH:   | WATER CLEAR |     |     |          |                      |

| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 180        | mA    |
| STEADY CURRENT                   | 30         | mA    |
| POWER DISSIPATION                | 100        | mW    |
| DERATE FROM 25°C                 | -1.2       | mW/°C |
| OPERATING, STORAGE TEMP.         | -30 TO +85 | °C    |

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

NOTES:

- 1. 3,000 PIECES PER REEL.
- 2. PIN 3 IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
- 3. LABEL MUST BE PERMANENTLY ATTACHED TO EACH REEL.



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

|   |                              |
|---|------------------------------|
| REV.<br>F   | PART NUMBER<br>SSL-LX15IC-TR |
| SOT-23 SURFACE MOUNT 635nm RED LED,<br>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>BC | CHECKED BY: | APPROVED BY:  |
| DATE: 2.23.95   |             | PAGE: 1 OF 1  |
| SCALE: N/A      |             |   |