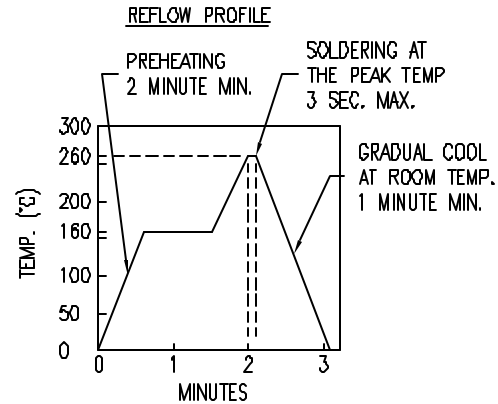
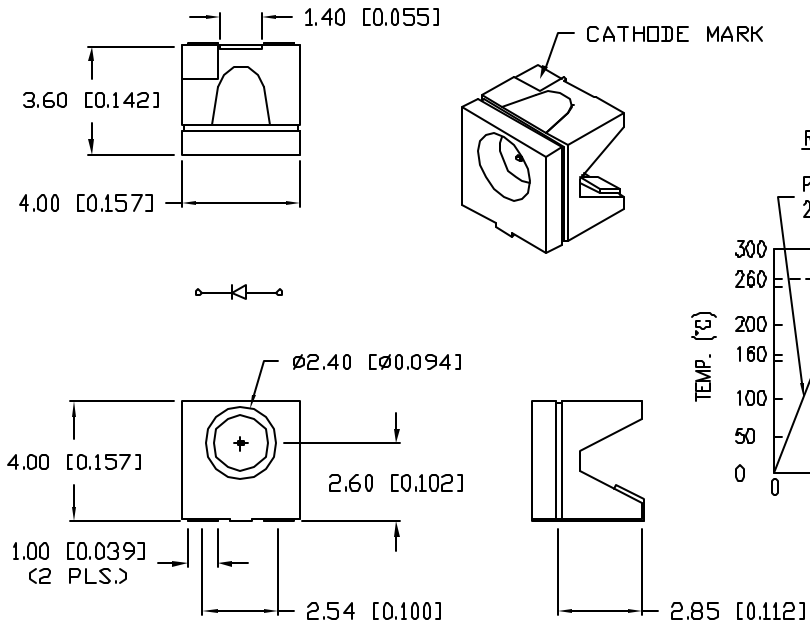
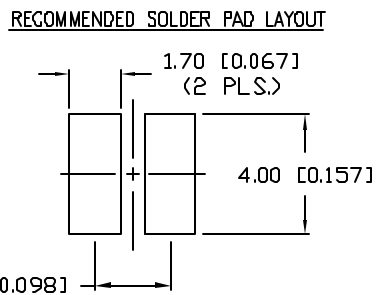
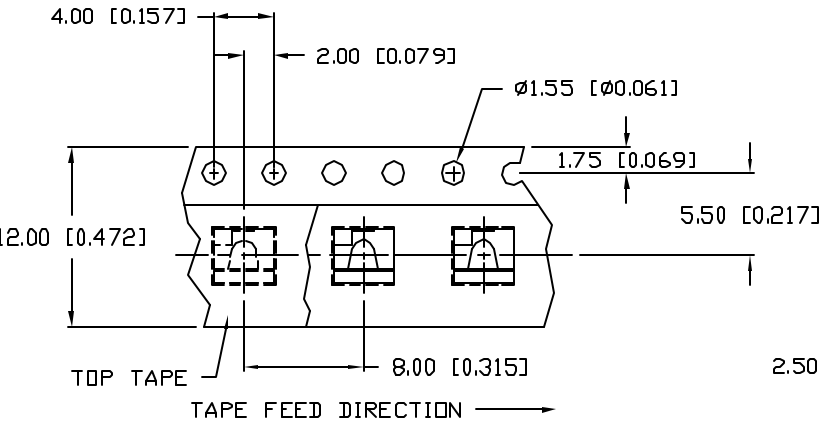


| | | |
|-----------------|-------------------------------------|--------|
| PART NUMBER | | REV. |
| SML-LXR44SIC-TR | | A |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10849. | 4.2.01 |



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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-------------|-----|-----|----------------|-----------------------|
| PEAK WAVELENGTH | | 636 | | nm | |
| FORWARD VOLTAGE | | 2.0 | 2.6 | V _f | |
| REVERSE VOLTAGE | 5.0 | | | V _r | I _r =100μA |
| AXIAL INTENSITY | | 170 | | mcd | I _f =20mA |
| VIEWING ANGLE | | 90 | | 2x theta | |
| EMITTED COLOR: | RED | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |



LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 160 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 100 | mW |
| DERATE FROM 25°C | -1.2 | mW/°C |
| ⊠ OPERATING TEMP. | -40 TO +85 | °C |
| ⊠ STORAGE TEMP. | -40 TO +85 | °C |

* t<10μS

- NOTES:
- 500 PIECES PER REEL.
 - THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

*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. | PART NUMBER |
| A | SML-LXR44SIC-TR |
| RIGHT ANGLE BOOMERANG SURFACE MOUNT LED, 636nm SUPER HIGH INTENSITY RED LED, WATER CLEAR. | |

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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: | CHECKED BY: | APPROVED BY: | DATE: |
| CT | | | 10.16.01 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |

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