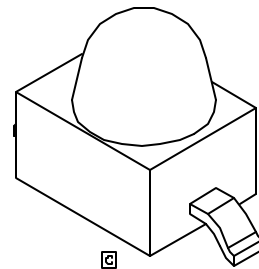
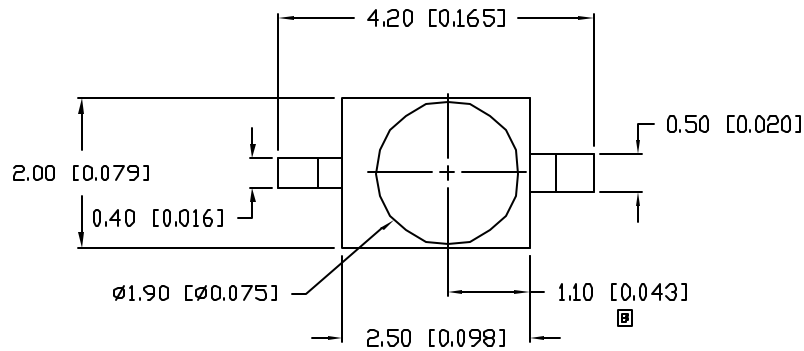
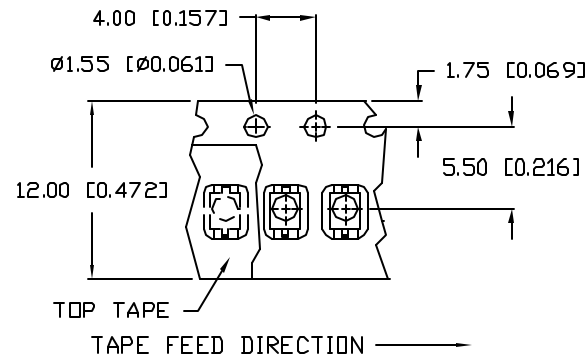
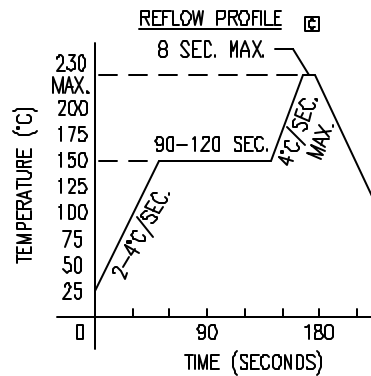
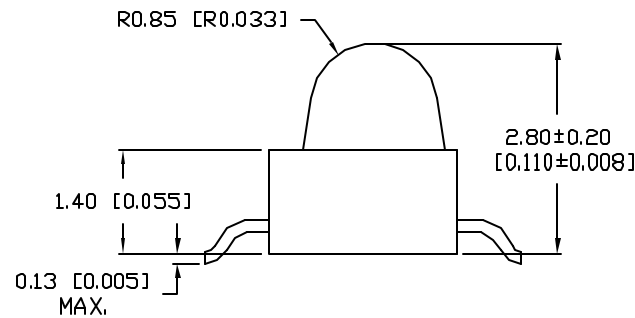


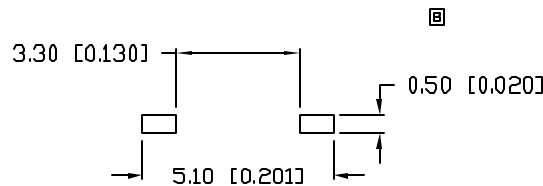
UNCONTROLLED DOCUMENT



ANODE CATHODE



RECOMMENDED SOLDER PAD LAYOUT



| | | |
|-------------------|-------------------------------------|----------|
| PART NUMBER | | REV. |
| SSL-LXA228IC-TR11 | | C |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | CHG'D WHERE NOTED. | 11.29.94 |
| B | E.C.N. #10550. & #10BRDR | 10.21.99 |
| C | E.C.N. #10695. | 1.5.01 |

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 | | 80 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 25 | | 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. | -30 TO +85 | °C |
| STORAGE TEMP. | -40 TO +85 | °C |

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

NOTES:

- 1,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

UNCONTROLLED DOCUMENT

*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 |
| C | SSL-LXA228IC-TR11 |
| AXIAL LED, GULL WING LEADS, 635nm RED LED, WATER CLEAR LENS, TAPE AND REEL. | |

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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: |
| ct | | |
| DATE: | 8.31.94 | |
| PAGE: | 1 OF 1 | |
| SCALE: | N/A | |