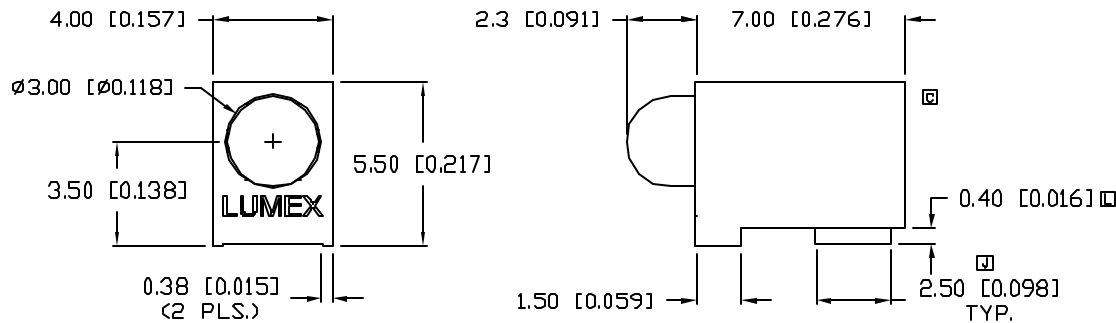
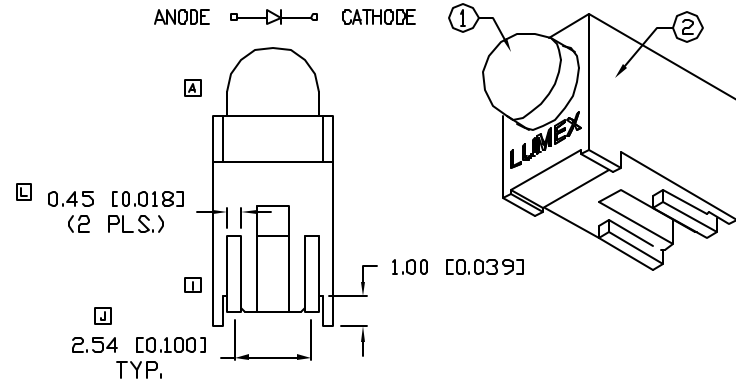


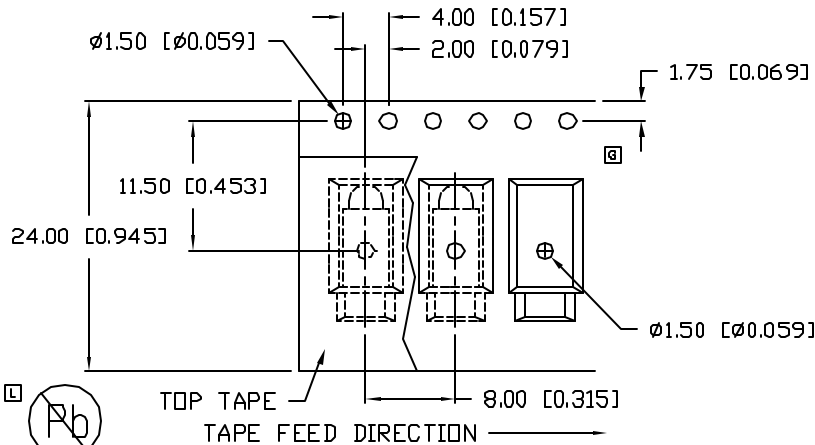
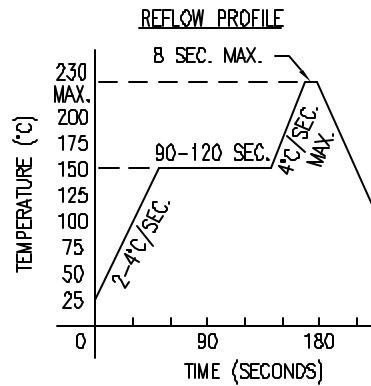
UNCONTROLLED DOCUMENT



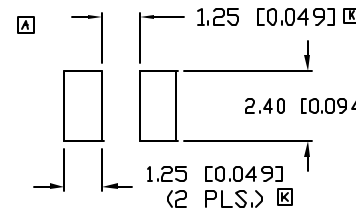
ANODE CATHODE



PATENT PENDING



RECOMMENDED SOLDER PAD LAYOUT



| | | |
|-------------------|--|------|
| PART NUMBER | | REV. |
| SSF-LXH305ID(-TR) | | L |

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|----------|
| A | ADDED SOLDER PROFILE. | 5.13.94 |
| B | UPDATED SAFE OPER SPECS. | 9.12.94 |
| C | UPDATED SAFE OPER SPECS. | 11.16.94 |
| D | CORRECTED PROTRUSION | 3.13.95 |
| E | ADDED TAPE AND REEL OPTION. | 7.5.95 |
| F | E.C.N. #10BRDR. & REDRAWN. | 10.15.97 |
| G | E.C.N. #10625. | 5.22.00 |
| H | E.C.N. #10683. | 11.30.00 |
| I | E.C.N. #10782. | 11.6.01 |
| J | E.C.N. #10855 | 4.22.02 |
| K | E.C.N. #10864. | 5.15.02 |
| L | E.C.N. #11311. & 11148. | 2.20.06 |

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 | 2.5 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | | 40 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 60 | | 2x theta | |
| EMITTED COLOR: | RED | | | | |
| EPOXY LENS FINISH: | RED DIFFUSED | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|--------------------------|------------|-------|
| PEAK FORWARD CURRENT* | 150 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 105 | mW |
| DERATE FROM 25°C | -1.6 | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C |
| SOLDERING TEMP. | +230 | °C |

3 SEC. MAX

- * $t < 10\mu\text{s}$ NOTES: \square \square
- SSL-LX305F6ID, RED LED.
 - SSH-LXH305, BLACK HOLDER.
 - TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.
 - CARRIER TAPE #LXP-CARRIER24-56.

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 |
| L | SSF-LXH305ID(-TR) |
| T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED, 635nm RED LED, RED DIFFUSED 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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| | | | |
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| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
| BC | | | 3.3.94 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |

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