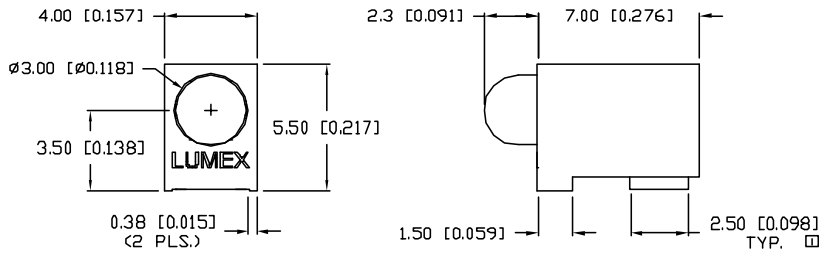
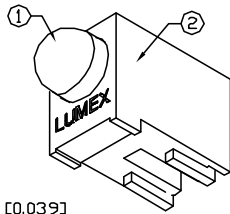


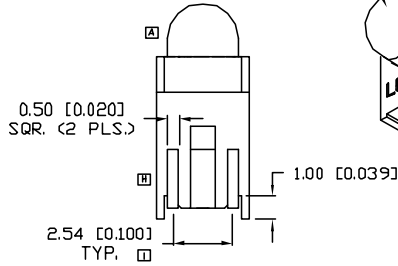
UNCONTROLLED DOCUMENT



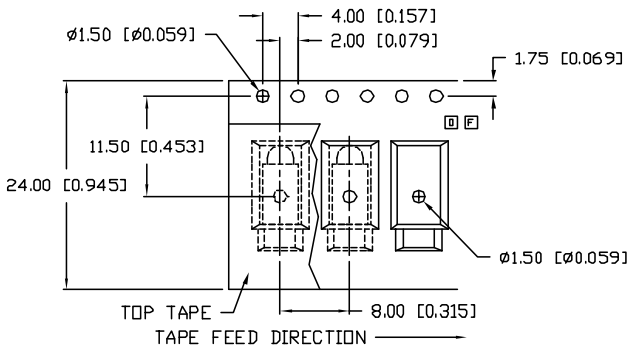
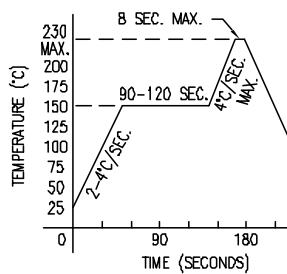
ANODE \rightarrow CATHODE



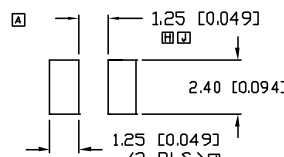
PATENT PENDING



REFLOW PROFILE



RECOMMENDED SOLDER PAD LAYOUT



| PART NUMBER | | REV. |
|--------------------|-------------------------------------|----------|
| SSF-LXH305LYD(-TR) | | J |
| 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 | CORRECTED LED PROTRUSION. | 3.13.95 |
| D | ADDED TAPE AND REEL OPTION. | 7.5.95 |
| E | E.C.N. #10BRDR & REDRAWN. | 10.15.97 |
| F | E.C.N. #10625. | 5.22.00 |
| G | E.C.N. #10683. | 11.30.00 |
| H | E.C.N. #10782. | 11.6.01 |
| I | E.C.N. #10855. | 4.23.02 |
| J | E.C.N. #10864. | 5.15.02 |

| ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$ | | | | |
|--|-----------------|-----|-----|----------------------------|
| PARAMETER | MIN | TYP | MAX | UNITS TEST COND |
| PEAK WAVELENGTH | | 585 | | nm |
| FORWARD VOLTAGE | | 2.0 | 2.5 | V_f |
| REVERSE VOLTAGE | 5.0 | | | V_r $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | | 30 | | mcd $I_f=20\text{mA}$ |
| | 1.0 | | | mcd $I_f=2\text{mA}$ |
| VIEWING ANGLE | | 60 | | 2x theta |
| EMITTED COLOR: | YELLOW | | | |
| EPOXY LENS FINISH: | YELLOW 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:

1. SSL-LX305F4LYD, YELLOW LED.
2. SSH-LXH305, BLACK HOLDER.
3. -TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.
4. 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= -0.000 DECIMAL PRECISION MAX.= +0.000 DECIMAL PRECISION

| | |
|------|--------------------|
| REV. | PART NUMBER |
| J | SSF-LXH305LYD(-TR) |

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T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED.
 585nm YELLOW LED, LOW CURRENT OPERATION,
 YELLOW DIFFUSED LENS, TAPE AND REEL.

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.

| | | | |
|-----------|-------------|--------------|--------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
| BC | | | 3.3.94 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |