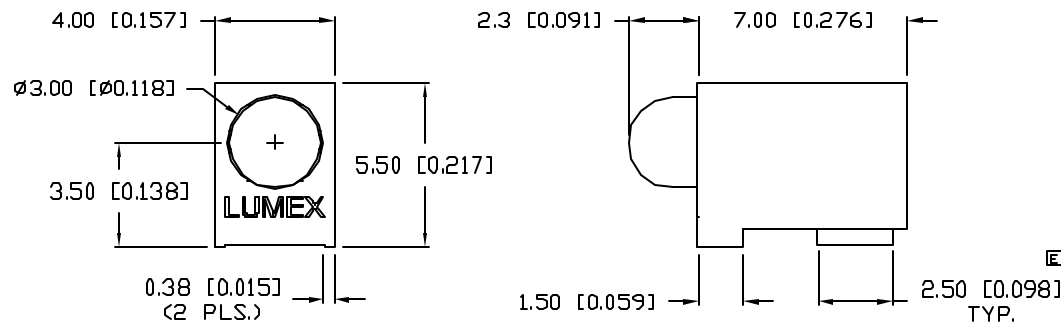
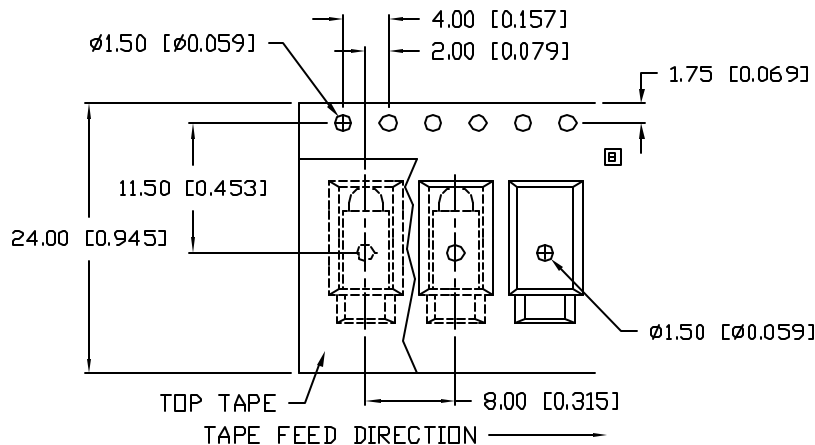
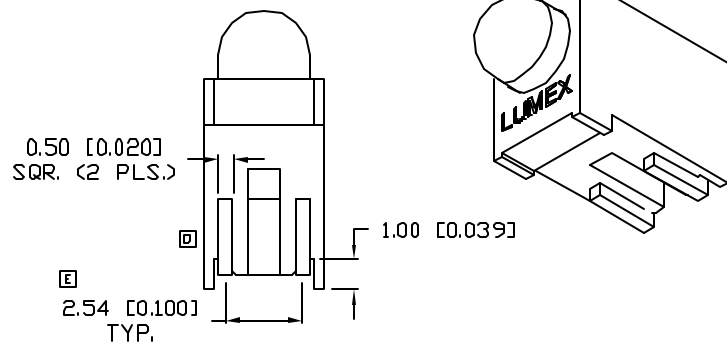


# UNCONTROLLED DOCUMENT

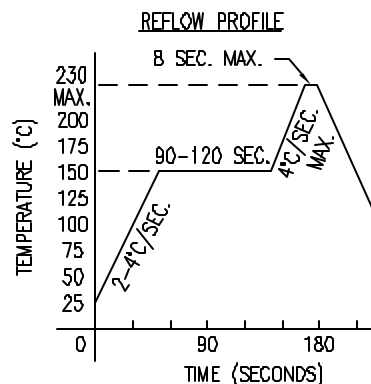


ANODE  CATHODE

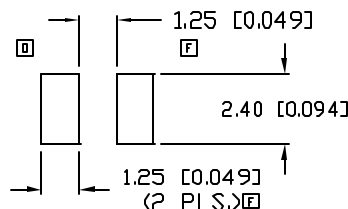


\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005).

PATENT PENDING



## RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER  
SSF-LXH305SYD(-TR)

REV.  
F

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10BRDR & REDRAWN.           | 10.15.97 |
| B    | E.C.N. #10625.                      | 5.19.00  |
| C    | E.C.N. #10683.                      | 11.30.00 |
| D    | E.C.N. #10782.                      | 11.6.01  |
| E    | E.C.N. #10855.                      | 4.22.02  |
| F    | 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    |                 | 590 |     | nm       |                      |
| FORWARD VOLTAGE    |                 | 2.1 | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0             |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |                 | 250 |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                 | 60  |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW          |     |     |          |                      |
| EPOXY LENS FINISH: | YELLOW DIFFUSED |     |     |          |                      |

## LIMITS OF SAFE OPERATION AT $25^\circ\text{C}$

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.6       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +230       | $^\circ\text{C}$     |
|                                | 3 SEC. MAX |                      |

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

## NOTES:

1. SSL-LXH305F4SYD, YELLOW LED.
2. SSH-LXH305, BLACK HOLDER.
3. -TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.
4. CARRIER TAPE #LXP-CARRIER24-56.

# UNCONTROLLED DOCUMENT

LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.=+0.00 -0.00, MAX.=+0.00 -0.00

REV.  
F

PART NUMBER

SSF-LXH305SYD(-TR)

T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED,  
590nm SUPER YELLOW LED,  
YELLOW DIFFUSED 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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