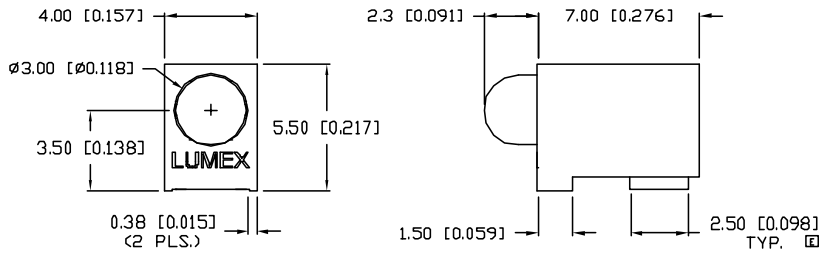
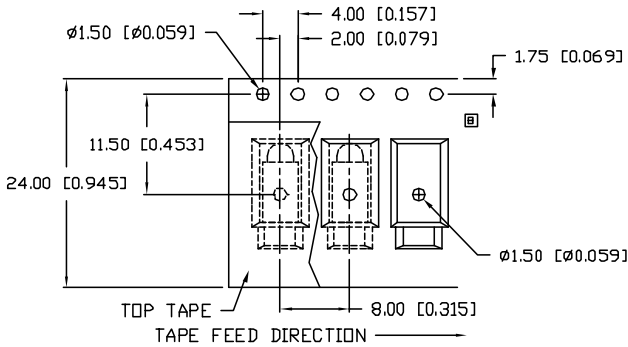
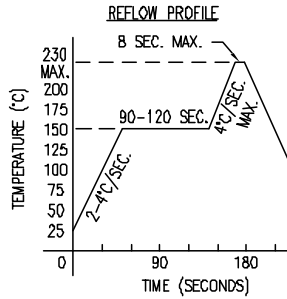
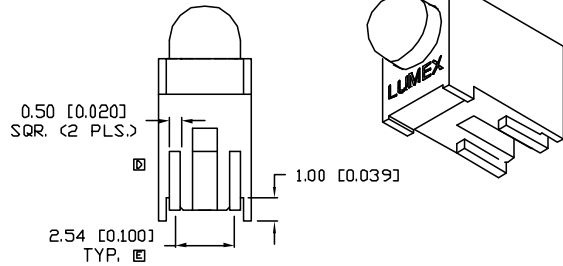


UNCONTROLLED DOCUMENT

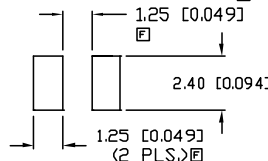


ANODE \rightarrow CATHODE

PATENT PENDING



RECOMMENDED SOLDER PAD LAYOUT



*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, MAX.= +0.000 DECIMAL PRECISION

| PART NUMBER | | REV. |
|--------------------|-------------------------------------|----------|
| SSF-LXH305SBD(-TR) | | F |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10BRDR & REDRAWN. | 10.15.97 |
| B | E.C.N. #10625. | 5.22.00 |
| C | E.C.N. #10683. | 11.30.00 |
| D | E.C.N. #10782. | 11.6.01 |
| E | E.C.N. #10855. | 4.23.02 |
| F | E.C.N. #10864. | 5.15.02 |

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

| ELECTRO-OPTICAL CHARACTERISTICS T _A =25°C I _f =20mA | | | | | |
|---|---------------|-----|-----|----------------|-----------------------|
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
| PEAK WAVELENGTH | | 430 | | nm | |
| FORWARD VOLTAGE | | 4.5 | 5.5 | V _f | |
| REVERSE VOLTAGE | 5.0 | | | V _r | I _f =100µA |
| AXIAL INTENSITY | | 30 | | mcd | I _f =20mA |
| VIEWING ANGLE | | 60 | | 2x theta | |
| EMITTED COLOR: | SUPER BLUE | | | | |
| EPOXY LENS FINISH: | BLUE DIFFUSED | | | | |

| LIMITS OF SAFE OPERATION AT 25°C | | |
|----------------------------------|------------|------------|
| PARAMETER | MAX | UNITS |
| PEAK FORWARD CURRENT* | 200 | 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 < 10µS
- NOTES:
1. SSL-LX305F4SBD/A, BLUE LED.
 2. SSH-LXH305, BLACK HOLDER.
 3. -TR SUFFIX TO DESIGNATE TAPE AND REEL SUPPLIED.
 4. CARRIER TAPE #LXP-CARRIER24-56.

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| | |
|---|--------------------|
| REV. | PART NUMBER |
| F | SSF-LXH305SBD(-TR) |
| T-3mm (T-1) RIGHT ANGLE SURFACE MOUNT LED, 430nm SUPER BLUE LED, BLUE 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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| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: 1.14.99 |
| BC | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |