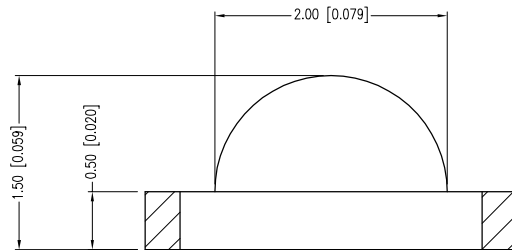
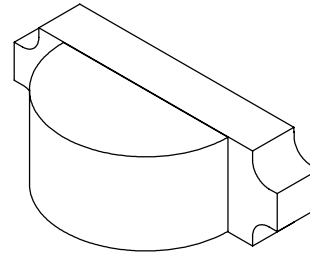
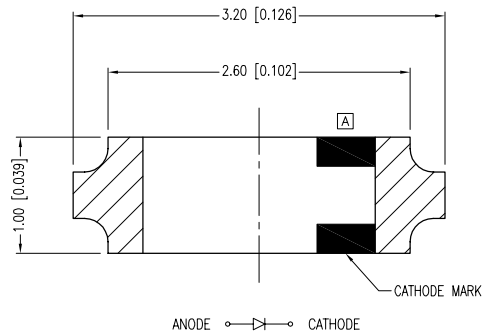


| PART NUMBER | SML-LXR85USBC-TR                    | REV. | C    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 07.30.01    | E.C.N. #10BRDR./ #10771.            |      | A    |
| 08.12.05    | E.C.N. #11248.                      |      | B    |
| 03.18.11    | E.C.N. #10BRDR. & REDRAWN/ #11704.  |      | C    |



| ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=20mA |             |      |     |          |           |
|--------------------------------------------------|-------------|------|-----|----------|-----------|
| PARAMETER                                        | MIN         | TYP. | MAX | UNITS    | TEST COND |
| PEAK WAVELENGTH                                  |             | 470  |     | nm       |           |
| FORWARD VOLTAGE                                  |             | 3.5  | 4.0 | Vf       |           |
| REVERSE VOLTAGE                                  | 5.0         |      |     | Vr       | Ir=100µA  |
| AXIAL INTENSITY                                  |             | 30   |     | mcd      | If=20mA   |
| VIEWING ANGLE                                    |             | 160  |     | 2x theta |           |
| EMITTED COLOR:                                   | BLUE        |      |     |          |           |
| EPOXY LENS FINISH:                               | WATER CLEAR |      |     |          |           |

## LIMITS OF SAFE OPERATION AT 25°C

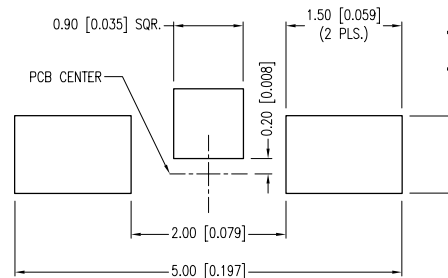
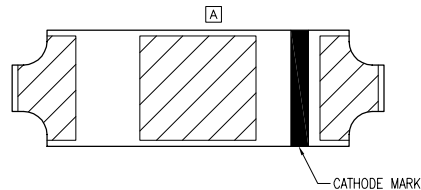
| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 100        | mA    |
| STEADY CURRENT        | 25         | mA    |
| POWER DISSIPATION     | 80         | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -25 TO +85 | °C    |
| STORAGE TEMP.         | -30 TO +85 | °C    |

\* t&lt;10µS

**CAUTION: MOISTURE SENSITIVE DEVICE**  
PER JEDEC LEVEL 2 STANDARDS

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

## RECOMMENDED SOLDER PAD LAYOUT



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT



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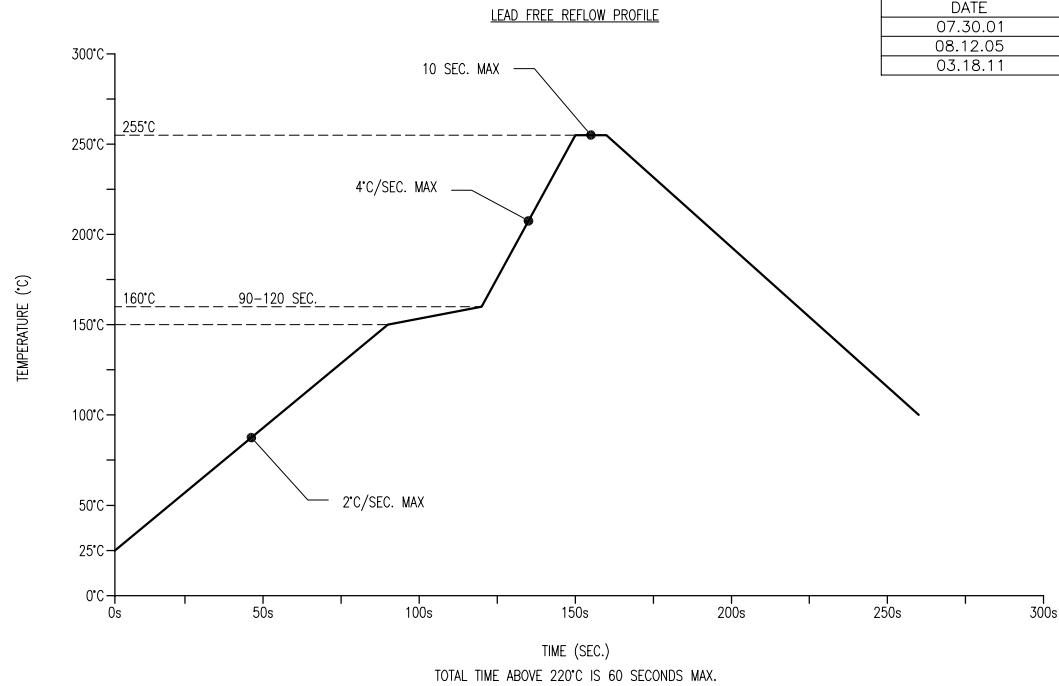
0.5mm x 3.2mm PCB, RIGHT ANGLE SURFACE MOUNT LED, 470nm BLUE, WATER CLEAR LENS, 3K PER REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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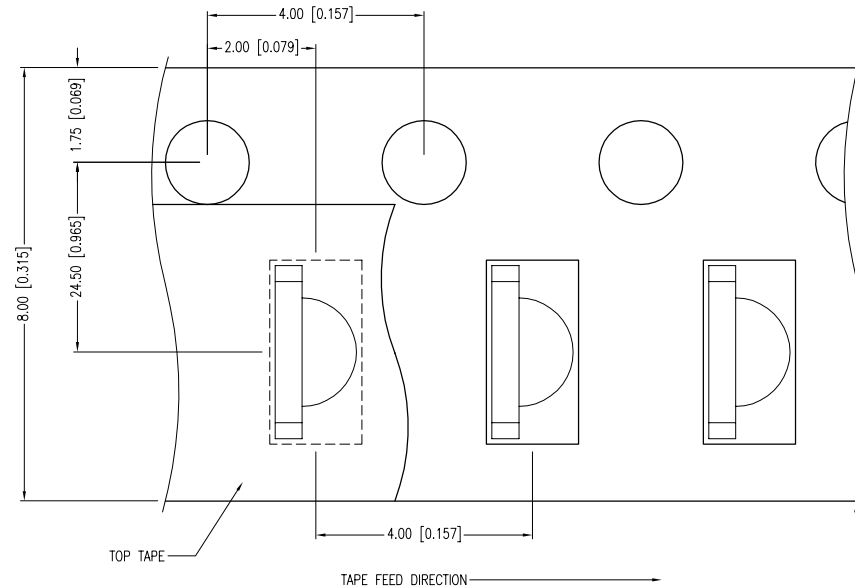
|        |           |           |    |
|--------|-----------|-----------|----|
| DATE:  | 03.18.11  | DRAWN BY: | AB |
| PAGE:  | 1 OF 2    | CHKD BY:  | JD |
| SCALE: | NTS       | APRVD BY: | JD |
| UNIT:  | mm [INCH] |           | Ⓟ  |

| PART NUMBER | SML-LXR85USBC-TR                    | REV. | C    |
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## NOTES:

- 3,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= <sup>+0.00</sup>/<sub>-0.00</sub> DECIMAL PRECISION MAX.= <sup>+0.00</sup>/<sub>-0.00</sub> DECIMAL PRECISION

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0.5mm x 3.2mm PCB, RIGHT ANGLE SURFACE MOUNT LED, 470nm BLUE, WATER CLEAR LENS, 3K PER REEL.

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| PAGE:  | 2 OF 2    | CHKD BY:  | JD |
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