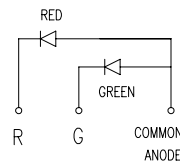
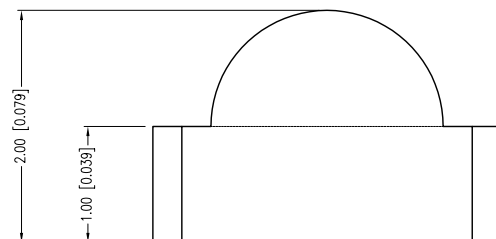
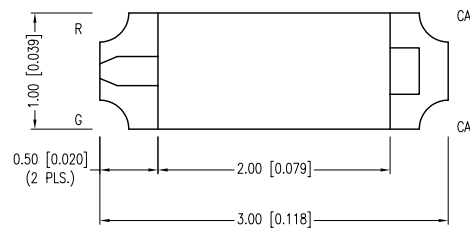
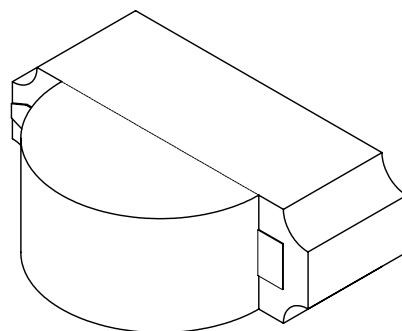


| PART NUMBER | SML-LXR851DRSUGCTR                  | REV. | A    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 05.16.11    | E.C.N. #11710/10BRDR. & REDRAWN.    |      | A    |



PIN\_OUT



## ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=20mA

| PARAMETER             | MIN         | TYP.    | MAX     | UNITS    | TEST COND |
|-----------------------|-------------|---------|---------|----------|-----------|
| PEAK WAVELENGTH (R/G) |             | 650/574 |         | nm       |           |
| FORWARD VOLTAGE (R/G) |             | 2.0/2.2 | 2.5/2.6 | Vf       |           |
| REVERSE VOLTAGE       | 5.0         |         |         | Vr       | Ir=100µA  |
| AXIAL INTENSITY       |             | 25/20   |         | mcd      | If=20mA   |
| VIEWING ANGLE         |             | 160     |         | 2x theta |           |
| EMITTED COLOR:        | RED/GREEN   |         |         |          |           |
| EPOXY LENS FINISH:    | WATER CLEAR |         |         |          |           |

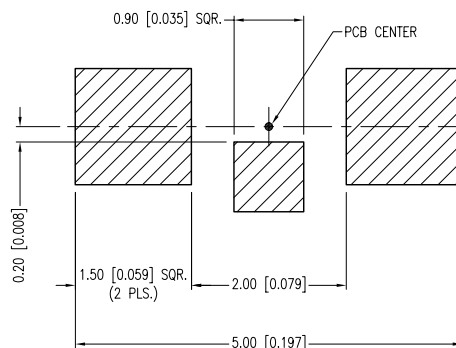
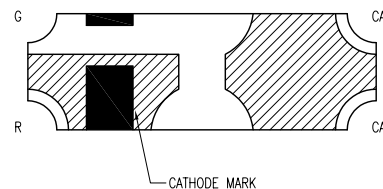
## LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 160        | mA    |
| STEADY CURRENT (R/G)  | 30/25      | mA    |
| POWER DISSIPATION     | 100        | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -20 TO +85 | °C    |
| STORAGE TEMP.         | -30 TO +90 | °C    |

\* t&lt;10µS

|   |                                                                   |
|---|-------------------------------------------------------------------|
| A | CAUTION: MOISTURE SENSITIVE DEVICE<br>PER JEDEC LEVEL 2 STANDARDS |
|---|-------------------------------------------------------------------|

## 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.= +DECIMAL PRECISION -0.00

UNCONTROLLED DOCUMENT



290 E. HELEN ROAD  
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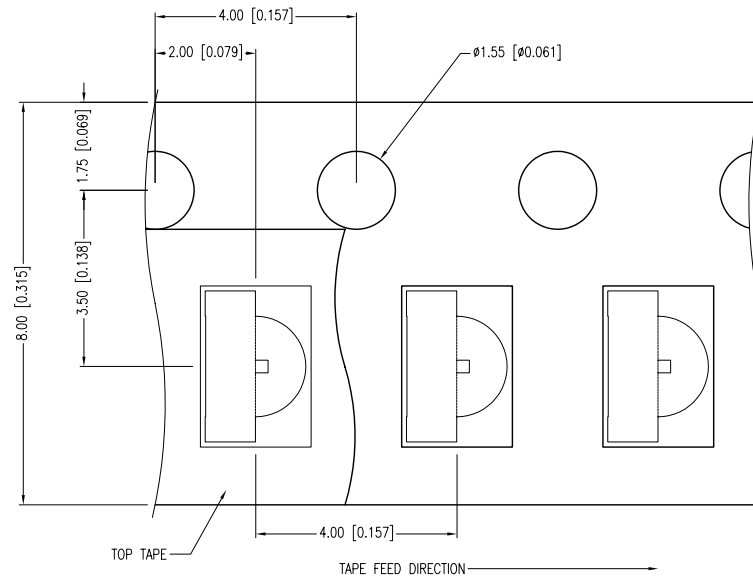
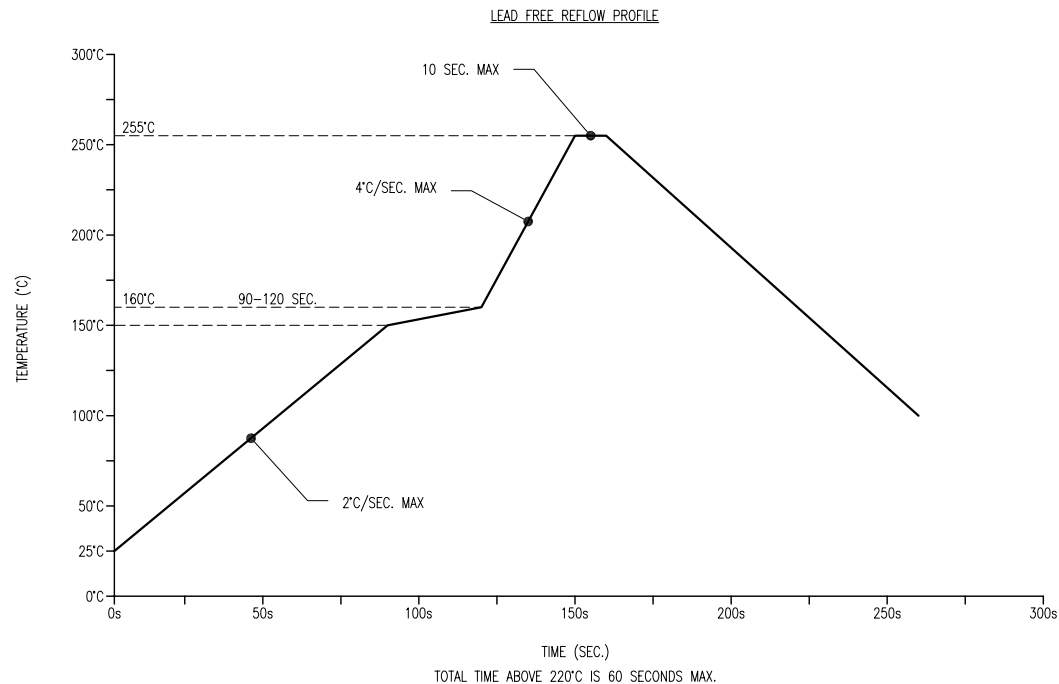
1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 650/574nm RED/GREEN, WATER CLEAR LENS, TAPE &amp; REEL.

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

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|        |           |           |    |
|--------|-----------|-----------|----|
| DATE:  | 05.16.11  | DRAWN BY: | AB |
| PAGE:  | 1 OF 2    | CHKD BY:  | KF |
| SCALE: | NTS       | APRVD BY: | SS |
| UNIT:  | mm [INCH] |           | Ⓟ  |

|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LXR851DRSUGCTR                  | REV. | A    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 05.16.11    | E.C.N. #11710/10BRDR. & REDRAWN.    |      | A    |

NOTES:

- 2,000 PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

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|        |           |           |      |
|--------|-----------|-----------|------|
| DATE:  | 05.16.11  | DRAWN BY: | AB   |
| PAGE:  | 2 OF 2    | CHKD BY:  | KF   |
| SCALE: | NTS       | APRVD BY: | SS   |
| UNIT:  | mm [INCH] |           | (Pc) |