

| PART NUMBER | SML-LXR851GC-TR                     | REV. | D    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 07.18.00    | E.C.N. #10644.                      |      | A    |
| 09.07.04    | E.C.N. #10967.                      |      | B    |
| 12.13.07    | E.C.N. #11148.                      |      | C    |
| 05.16.11    | E.C.N. #11710/10BRDR. & REDRAWN.    |      | D    |

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

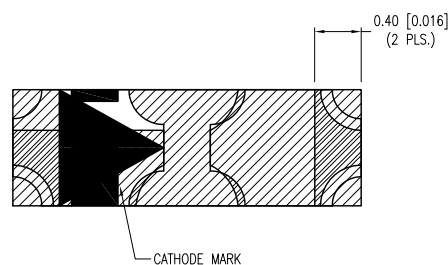
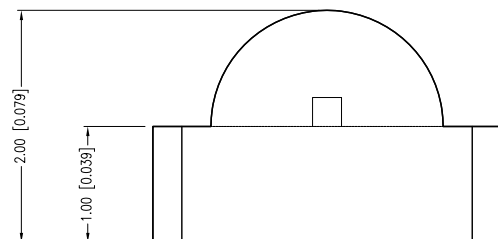
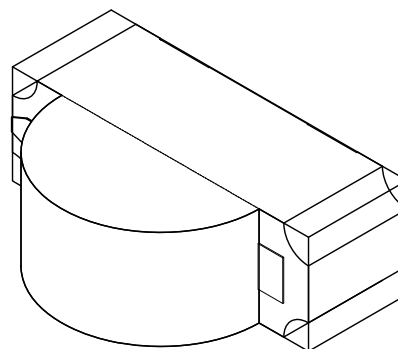
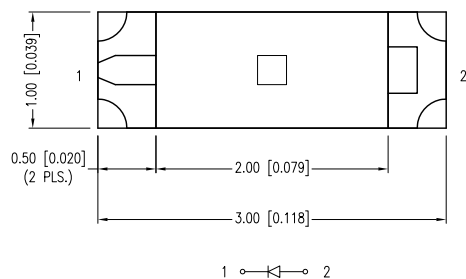
| PARAMETER          | MIN         | TYP. | MAX | UNITS    | TEST COND |
|--------------------|-------------|------|-----|----------|-----------|
| PEAK WAVELENGTH    |             | 565  |     | nm       |           |
| FORWARD VOLTAGE    |             | 2.2  | 2.6 | Vf       |           |
| REVERSE VOLTAGE    | 5.0         |      |     | Vr       | Ir=100μA  |
| AXIAL INTENSITY    |             | 11   |     | mcd      | If=20mA   |
| VIEWING ANGLE      |             | 160  |     | 2x theta |           |
| EMITTED COLOR:     | GREEN       |      |     |          |           |
| EPOXY LENS FINISH: | WATER CLEAR |      |     |          |           |

## LIMITS OF SAFE OPERATION AT 25°C

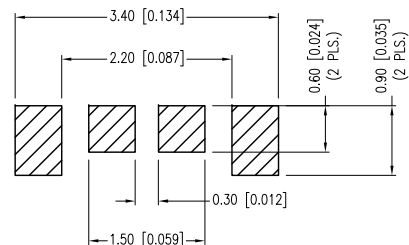
| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 160        | mA    |
| STEADY CURRENT        | 25         | mA    |
| POWER DISSIPATION     | 100        | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -40 TO +85 | °C    |
| STORAGE TEMP.         | -30 TO +90 | °C    |

\* t&lt;10μS

D B

CAUTION: MOISTURE SENSITIVE DEVICE  
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.= +0.00 -DECIMAL PRECISION

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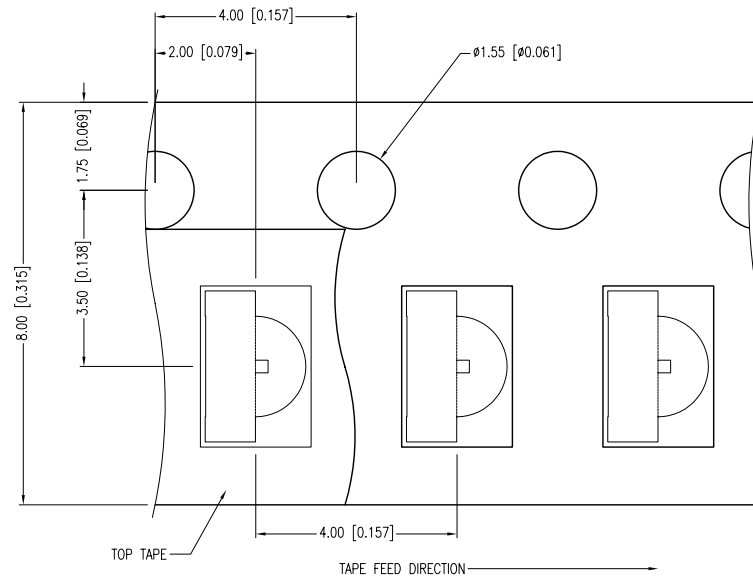
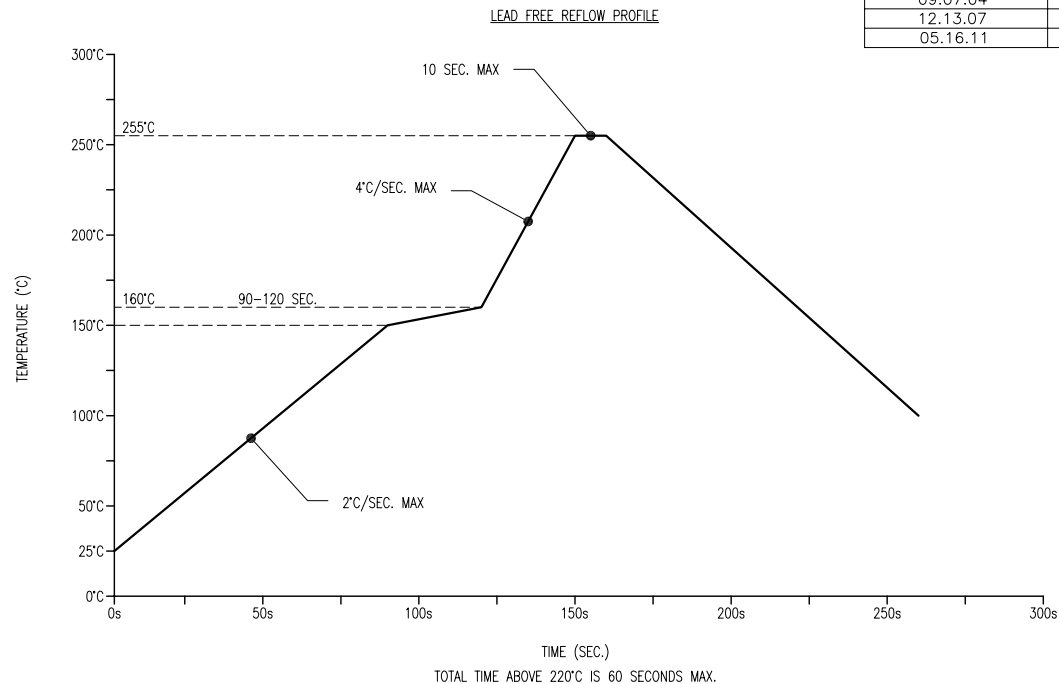
1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 565nm GREEN, WATER CLEAR LENS, TAPE &amp; REEL.

\*\*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] |           | Ⓟ  |

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NOTES:

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

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1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 565nm GREEN, WATER CLEAR LENS, TAPE & REEL.

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# Mouser Electronics

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