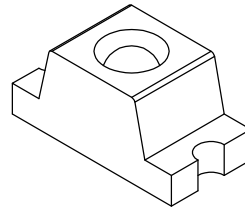
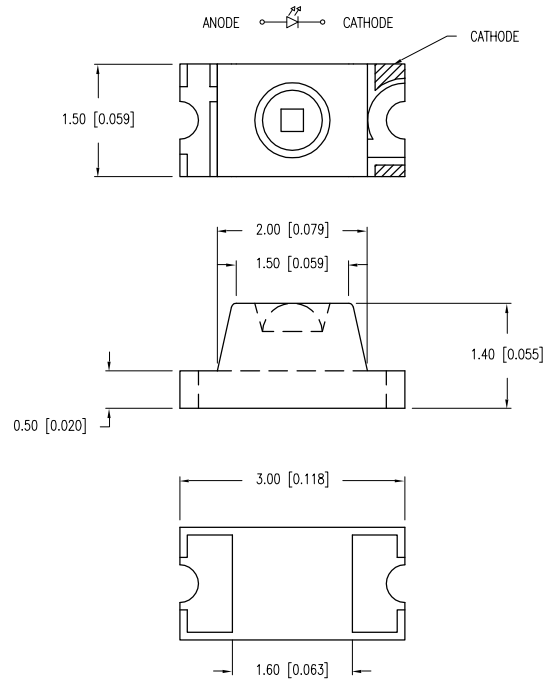


| PART NUMBER | SML-LXL1106SRC-TR                   | REV. | B    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 03.14.03    | E.C.N. #10967.                      |      | A    |
| 05.26.10    | E.C.N. #11508.                      |      | B    |

ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$   $I_f = 20\text{mA}$ 

| PARAMETER          | MIN         | TYP | MAX | UNITS    | TEST COND              |
|--------------------|-------------|-----|-----|----------|------------------------|
| PEAK WAVELENGTH    |             | 660 |     | nm       |                        |
| FORWARD VOLTAGE    |             | 1.7 | 2.2 | $V_f$    |                        |
| REVERSE VOLTAGE    | 4.0         |     |     | $V_r$    | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 80  |     | mcd      | $I_f = 20\text{mA}$    |
| VIEWING ANGLE      |             | 90  |     | 2x theta |                        |
| EMITTED COLOR:     | RED         |     |     |          |                        |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                        |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 200        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 110        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING TEMP.                | -30 TO +85 | $^\circ\text{C}$     |
| STORAGE TEMP.                  | -40 TO +85 | $^\circ\text{C}$     |

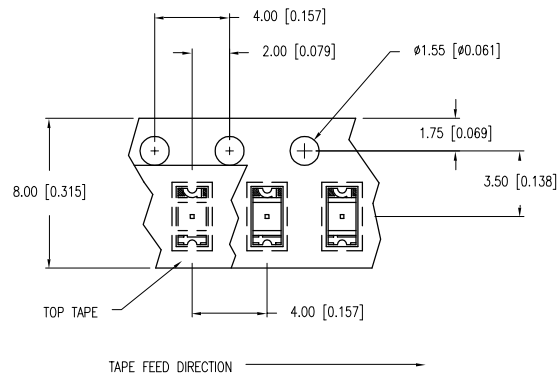
\*  $t < 10\mu\text{s}$ 

**CAUTION: MOISTURE SENSITIVE DEVICE**  
PER JEDEC LEVEL 3 STANDARDS

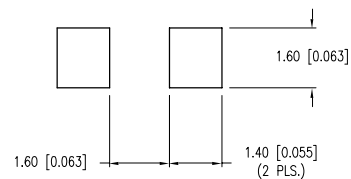
**CAUTION: STATIC SENSITIVE DEVICE**  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

## NOTES:

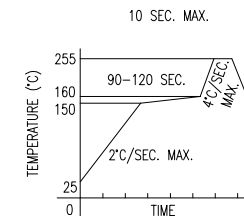
- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



## RECOMMENDED SOLDER PAD LAYOUT



## LEAD FREE REFLOW PROFILE

TOTAL TIME ABOVE  $220^\circ\text{C}$  IS 60 SECONDS MAX.

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

**LUMEX**  
Creating LED and LCD Solutions Together™

290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
FAX: +1.847.359.6538  
WEB: WWW.LUMEX.COM

3mm x 1.5mm SML WITH LENS, 660nm SUPER RED LED, WATER CLEAR LENS, TAPE AND REEL.

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

## CONFIDENTIAL INFORMATION

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

|        |           |           |      |
|--------|-----------|-----------|------|
| DATE:  | 01.12.01  | DRAWN BY: | BC   |
| PAGE:  | 1 OF 1    | CHKD BY:  | KF   |
| SCALE: | N/A       | APRVD BY: | SS   |
| UNIT:  | mm [INCH] |           | (P6) |