

| PART NUMBER | SML-LX0606IGC-TR                    | REV. | E    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 03.14.03    | E.C.N. #10967.                      |      | A    |
| 05.25.07    | E.C.N. #11148.                      |      | B    |
| 05.27.08    | E.C.N. #11508..                     |      | C    |
| 12.21.09    | E.C.N. #11581.                      |      | D    |
| 7.1.15      | E.C.N. #11964.                      |      | E    |

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

| PARAMETER          | COLOR       | MIN | TYP     | MAX     | UNITS    | TEST COND            |
|--------------------|-------------|-----|---------|---------|----------|----------------------|
| PEAK WAVELENGTH    |             |     | 635     |         | nm       |                      |
|                    |             |     | 565     |         | nm       |                      |
| FORWARD VOLTAGE    | (R/G)       |     | 2.0/2.2 | 2.5/2.6 | $V_f$    |                      |
| REVERSE VOLTAGE    |             | 5.0 |         |         | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             |     | 10      |         | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             |     | 120     |         | 2x theta |                      |
| EMITTED COLOR:     | RED/GREEN   |     |         |         |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |         |         |          |                      |

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

| PARAMETER                        |       | MAX        | UNITS                  |
|----------------------------------|-------|------------|------------------------|
| PEAK FORWARD CURRENT*            |       | 160        | mA                     |
| STEADY CURRENT                   | (R/G) | 30/25      | mA                     |
| POWER DISSIPATION                |       | 100        | mW                     |
| DERATE FROM $25^{\circ}\text{C}$ |       | - 1.2      | mW/ $^{\circ}\text{C}$ |
| OPERATING TEMP.                  |       | -40 TO +80 | $^{\circ}\text{C}$     |
| STORAGE TEMP.                    |       | -40 TO +85 | $^{\circ}\text{C}$     |

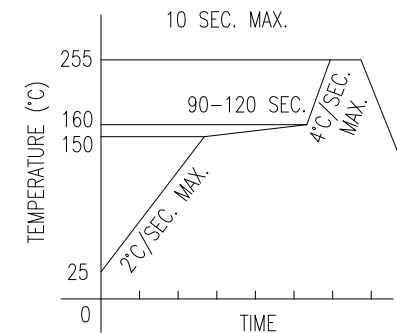
\*  $t < 10\mu\text{s}$

#### NOTES:

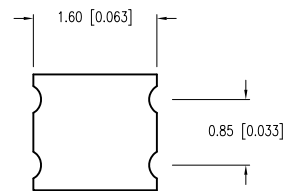
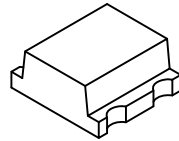
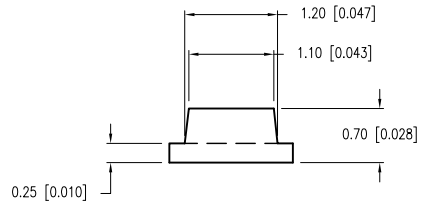
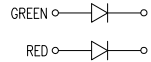
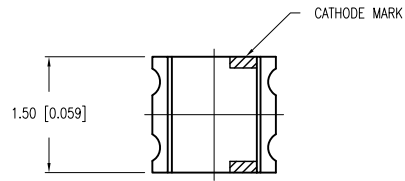
- THE CATHODE MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

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

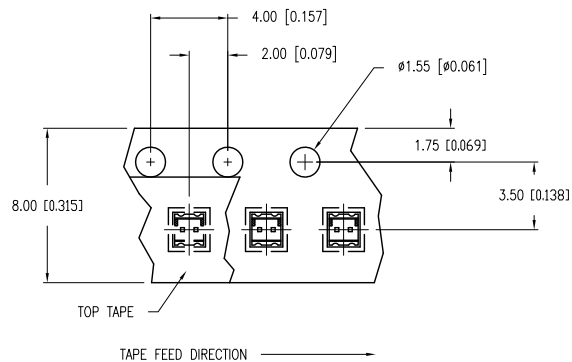
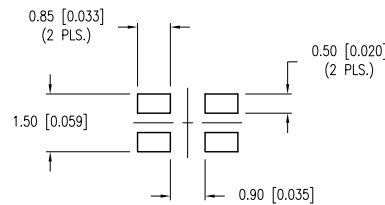
#### LEAD FREE REFLOW PROFILE



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



#### RECOMMENDED SOLDER PAD LAYOUT



\*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=  $\frac{+ \text{DECIMAL PRECISION}}{-0.00}$  MAX=  $\frac{+0.00}{- \text{DECIMAL PRECISION}}$

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

425 N. GARY AVE.  
CAROL STREAM, IL 60188-4900  
PHONE: +1.800.278.5666  
FAX: +1.630.315.2152  
WEB: WWW.ITWECS.COM

1.6mm x 1.5mm ULTRA THIN SML, 635nm/565nm BICOLOR LED, WATER CLEAR LENS, TAPE AND REEL.

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

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|--------|-----------|-----------|----------|
| DATE:  | 01.11.01  | DRAWN BY: | JN       |
| PAGE:  | 1 OF 1    | CHKD BY:  | KF       |
| SCALE: | N/A       | APRVD BY: | JD       |
| UNIT:  | mm [INCH] |           | (Pb) (E) |