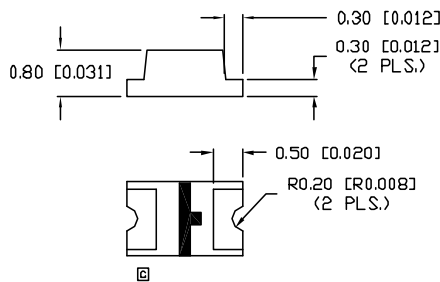
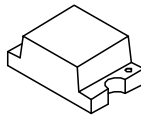
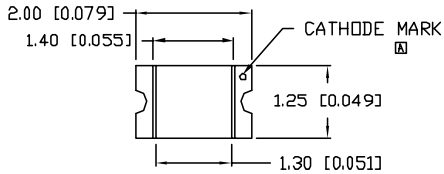
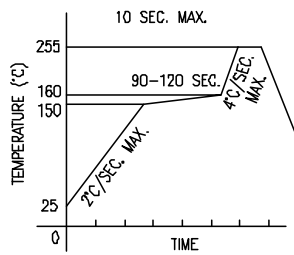


UNCONTROLLED DOCUMENT

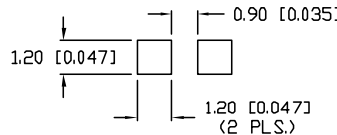
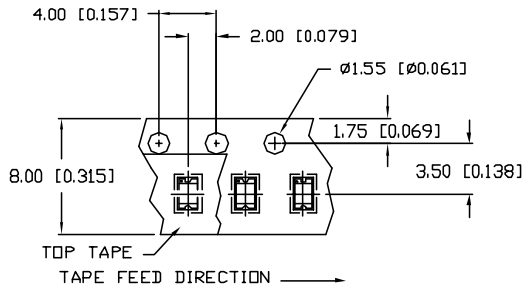


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

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= -0.00 DECIMAL PRECISION MAX.= +0.00 DECIMAL PRECISION

|                  |                                     |         |
|------------------|-------------------------------------|---------|
| PART NUMBER      |                                     | REV.    |
| SML-LXT0805AW-TR |                                     | E       |
| REV.             | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A                | E.C.N. #10567.                      | 12.8.99 |
| B                | E.C.N. #10695.                      | 1.8.01  |
| C                | E.C.N. #10814.                      | 2.25.02 |
| D                | E.C.N. #10967.                      | 3.22.04 |
| E                | E.C.N. #11248.                      | 8.12.05 |

| ELECTRO-OPTICAL CHARACTERISTICS T <sub>A</sub> =25°C I <sub>f</sub> =20mA |                      |     |     |                |                       |
|---|----------------------|-----|-----|----------------|-----------------------|
| PARAMETER   | MIN                  | TYP | MAX | UNITS          | TEST COND             |
| PEAK WAVELENGTH   |                      | 605 |     | nm             |                       |
| FORWARD VOLTAGE   |                      | 2.0 | 2.8 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE   | 5.0                  |     |     | V <sub>r</sub> | I <sub>f</sub> =100µA |
| AXIAL INTENSITY   | 2.5                  | 11  |     | mcd            | I <sub>f</sub> =20mA  |
| VIEWING ANGLE   |                      | 140 |     | 2x theta       |                       |
| EMITTED COLOR:  | AMBER                |     |     |                |                       |
| EPOXY LENS FINISH:  | MILKY WHITE DIFFUSED |     |     |                |                       |

| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 160        | mA    |
| STEADY CURRENT                   | 30         | mA    |
| POWER DISSIPATION                | 100        | mW    |
| DERATE FROM 25°C                 | -1.2       | mW/°C |
| OPERATING TEMP.                  | -25 TO +80 | °C    |
| STORAGE TEMP.                    | -30 TO +85 | °C    |

\* t<10µs

NOTES:

- 4K PER REEL
- CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

|   |                                 |   |  |
|---|---------------------------------|---|--|
| REV.<br>E   | PART NUMBER<br>SML-LXT0805AW-TR | <p>CONFIDENTIAL INFORMATION</p> <p>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.</p> <p>RELIABILITY NOTE</p> <p>OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.</p> | <p>290 E. HELEN ROAD<br/>PALATINE, IL 60067-6976<br/>PHONE: +1.847.359.2790<br/>US WEB: www.lumex.com<br/>TW WEB: www.lumex.com.tw</p> |
| 2.0mm x 1.25mm THIN PCB SURFACE MOUNT,<br>605nm AMBER LED,<br>MILKY WHITE DIFFUSED LENS, TAPE AND REEL. |                                 | <p>DRAWN BY: CT</p> <p>CHECKED BY:</p> <p>APPROVED BY:</p>  | <p>DATE: 2.17.99</p> <p>PAGE: 1 OF 1</p> <p>SCALE: N/A</p>   |