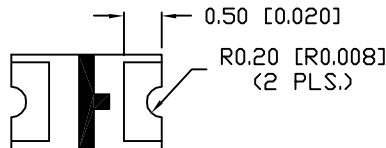
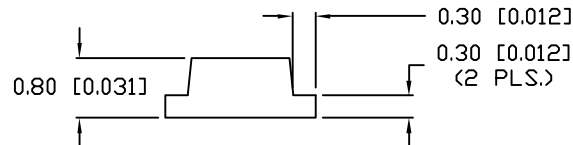
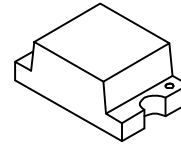
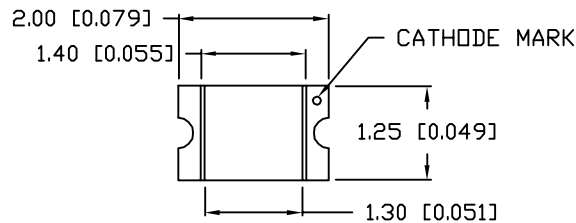
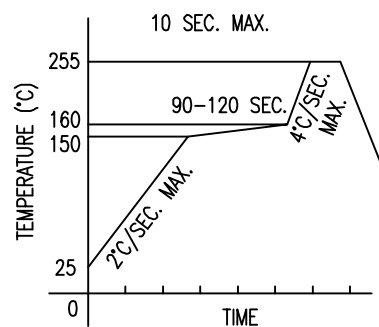


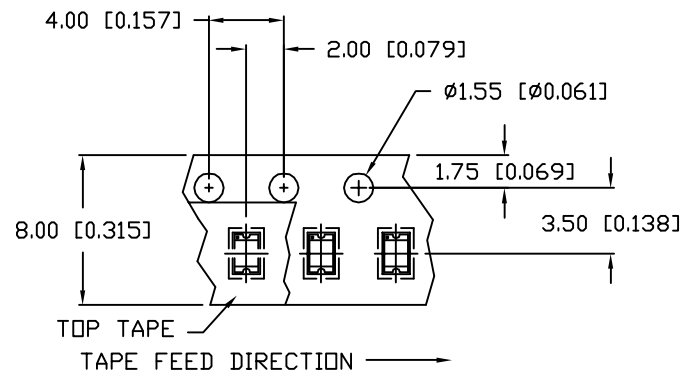
# UNCONTROLLED DOCUMENT



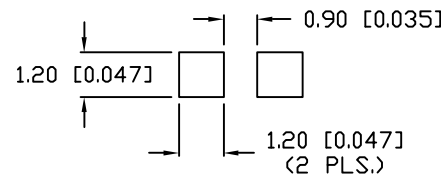
LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.



RECOMMENDED SOLDER PAD LAYOUT



| PART NUMBER        |                                     | REV.     |
|--------------------|-------------------------------------|----------|
| SML-LXT0805UPGW-TR |                                     | C        |
| REV.               | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A                  | E.C.N. #10967.                      | 3.22.04  |
| B                  | E.C.N. #11248.                      | 8.12.05  |
| C                  | E.C.N. #11508.                      | 09.30.09 |

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

| PARAMETER          | MIN                  | TYP | MAX | UNITS    | TEST COND            |
|--------------------|----------------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |                      | 525 |     | nm       |                      |
| FORWARD VOLTAGE    |                      | 3.5 | 4.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0                  |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    | 63                   | 130 |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                      | 140 |     | 2x theta |                      |
| EMITTED COLOR:     | GREEN                |     |     |          |                      |
| EPOXY LENS FINISH: | MILKY WHITE DIFFUSED |     |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 100        | mA    |
| STEADY CURRENT        | 30         | mA    |
| POWER DISSIPATION     | 50         | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -25 TO +80 | °C    |
| STORAGE TEMP.         | -30 TO +85 | °C    |

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

NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 2 STANDARDS

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

| REV.                                                                                                          | PART NUMBER        | CONFIDENTIAL INFORMATION                                                                                                                                                                                                                                                                                                     | LUMEX                                    | 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 |
|---------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| C                                                                                                             | SML-LXT0805UPGW-TR | 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. | Creating LED and LCD Solutions Together™ |                                                                                                                             |
| 2.0mm x 1.25mm THIN PCB SURFACE MOUNT,<br>525nm InGaN GREEN LED,<br>MILKY WHITE DIFFUSED LENS, TAPE AND REEL. |                    | RELIABILITY NOTE<br>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.                                                                                                                                   | DRAWN BY: CT                             | CHECKED BY: APPROVED BY: DATE: 2.10.03<br>PAGE: 1 OF 1<br>SCALE: N/A                                                        |

# Mouser Electronics

Authorized Distributor

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