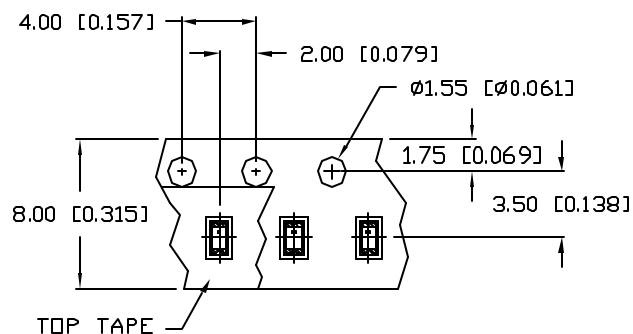
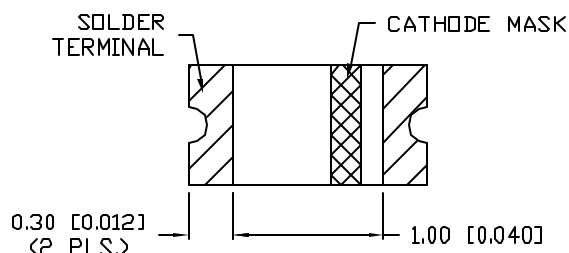
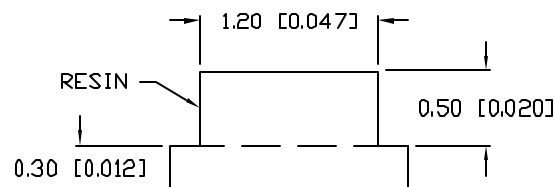
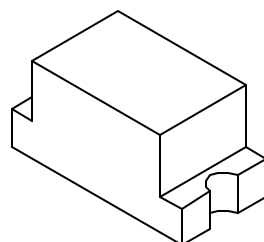
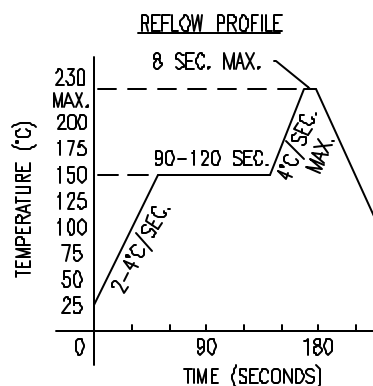


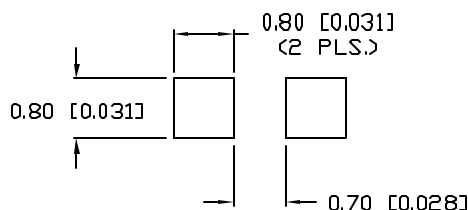
CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.



TOP TAPE  
TAPE FEED DIRECTION →



## RECOMMENDED SOLDER PAD LAYOUT

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 | 4.2 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0                  |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |                      | 45  |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                      | 140 |     | 2x theta |                      |
| EMITTED COLOR:     | GREEN                |     |     |          |                      |
| EPOXY LENS FINISH: | MILKY WHITE DIFFUSED |     |     |          |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 25         | mA                   |
| POWER DISSIPATION              | 50         | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING TEMP.                | -25 TO +85 | $^\circ\text{C}$     |
| STORAGE TEMP.                  | -30 TO +85 | $^\circ\text{C}$     |

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

## NOTES:

1. 4,000 PIECES PER REEL.
2. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

## CAUTION: MOISTURE SENSITIVE DEVICE

1. SHELF LIFE IN SEALED BAG:  
12 MONTHS AT  $<40^\circ\text{C}$  AND  $<90\%$  RELATIVE HUMIDITY (RH).
2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE MOUNTED WITHIN 48 HOURS OR STORED AT  $<30\%$  RH.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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

SML-LX0603UPGW-TR

## CONFIDENTIAL INFORMATION

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## RELIABILITY NOTE

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.

**LUMEX**  
INCORPORATED

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CHECKED BY:

APPROVED BY:

DATE: 4.14.00

PAGE: 1 OF 1

SCALE: N/A

BC

1.6mm x 0.8mm PCB CHIP, SURFACE MOUNT LED,  
525nm ULTRA PURE GREEN LED, MILKY WHITE DIFFUSED.