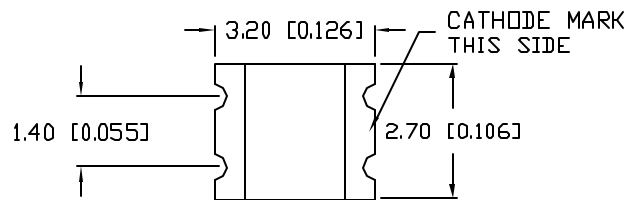
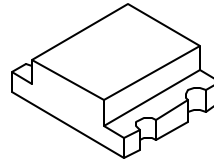
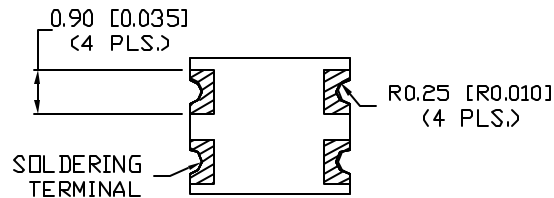
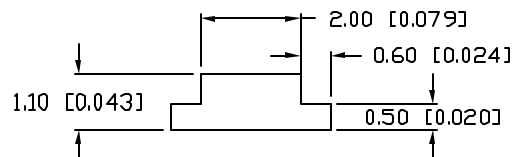


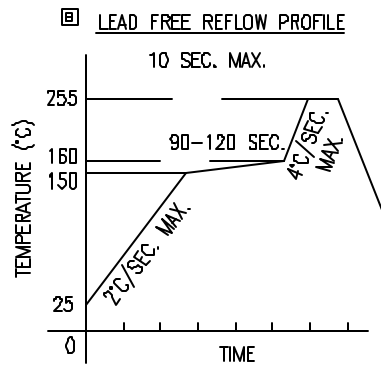
UNCONTROLLED DOCUMENT



GREEN   
BLUE

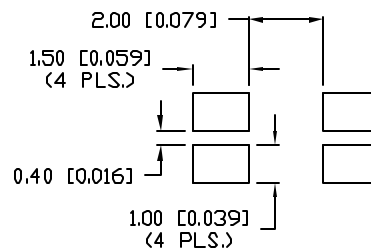
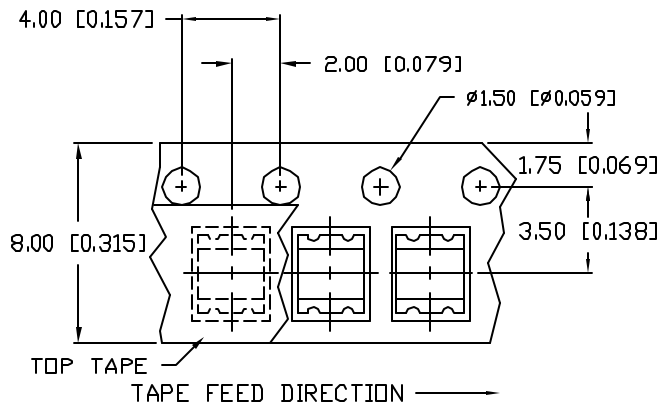


CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED PAD LAYOUT



| PART NUMBER        |                                     | REV.    |
|--------------------|-------------------------------------|---------|
| SML-LX1210SBSGC-TR |                                     | B       |
| REV.               | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A                  | E.C.N. #10972.                      | 3.25.03 |
| B                  | E.C.N. #11148.                      | 2.7.05  |

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

| PARAMETER                      | MIN | TYP         | MAX     | UNITS          | TEST COND            |
|--------------------------------|-----|-------------|---------|----------------|----------------------|
| PEAK WAVELENGTH                |     | 430 (BLUE)  |         | nm             |                      |
|                                |     | 565 (GREEN) |         | nm             |                      |
| FORWARD VOLTAGE (B/G)          |     | 4.5/2.2     | 5.5/2.6 | V <sub>f</sub> |                      |
| REVERSE VOLTAGE                | 5.0 |             |         | V <sub>r</sub> | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY                |     | 30          |         | mcd            | $I_f=20\text{mA}$    |
| VIEWING ANGLE                  |     | 160         |         | 2x theta       |                      |
| EMITTED COLOR: BLUE/GREEN      |     |             |         |                |                      |
| EPOXY LENS FINISH: WATER CLEAR |     |             |         |                |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | COLORS | MAX        | UNITS |
|-----------------------|--------|------------|-------|
| PEAK FORWARD CURRENT* |        | 150        | mA    |
| STEADY CURRENT        | (B/G)  | 30/25      | mA    |
| POWER DISSIPATION     |        | 105        | mW    |
| DERATE FROM 25°C      |        | -1.2       | mW/°C |
| OPERATING TEMP.       |        | -25 TO +85 | °C    |
| STORAGE TEMP.         |        | -30 TO +85 | °C    |

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

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

\*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        |
|------|--------------------|
| B    | SML-LX1210SBSGC-TR |

2.7mm x 3.2mm P.C.B. SURFACE MOUNT LED,  
DUAL CHIPS, SUPER BLUE/SUPER GREEN LEDS,  
WATER CLEAR LENS, TAPE AND REEL

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.

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.



290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

|           |             |              |              |
|-----------|-------------|--------------|--------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE:        |
| CT        |             |              | 7.18.02      |
|           |             |              | PAGE: 1 OF 1 |
|           |             |              | SCALE: N/A   |