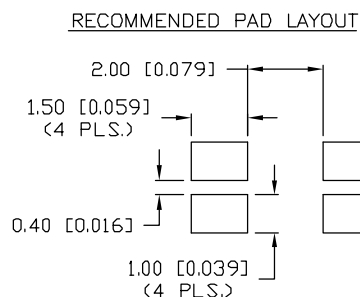
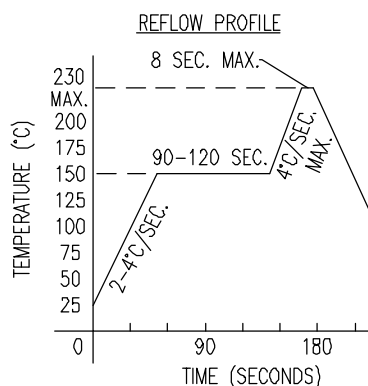
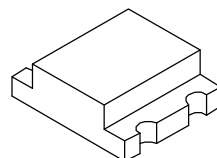
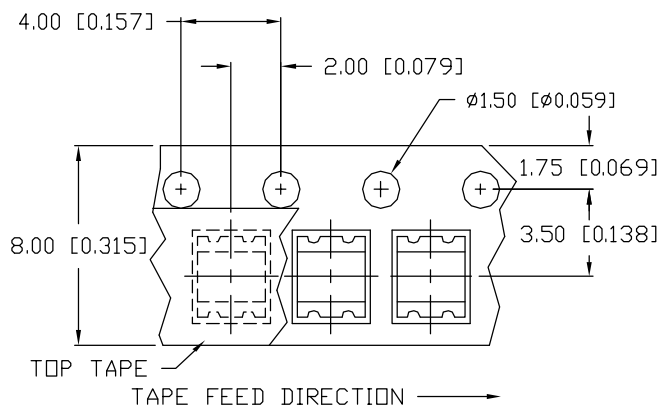
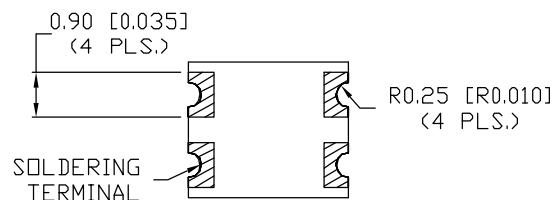
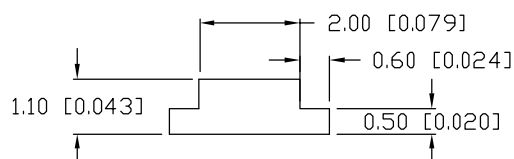
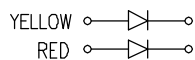
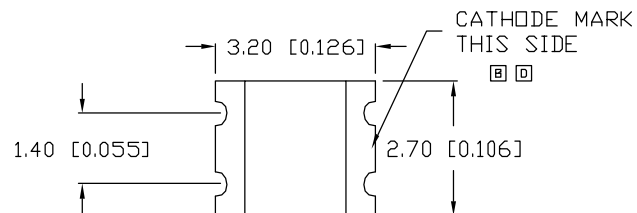


# UNCONTROLLED DOCUMENT



| PART NUMBER      |                                     | REV.    |
|------------------|-------------------------------------|---------|
| SML-LX1210IYC-TR |                                     | E       |
| REV.             | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A                | E.C.N. #10324.                      | 3.17.97 |
| B                | E.C.N. #10404. & 10BRDR. & REDRAWN. | 5.22.98 |
| C                | E.C.N. #10695.                      | 1.4.01  |
| D                | E.C.N. #10834.                      | 1.25.02 |
| E                | E.C.N. #10972.                      | 3.25.03 |

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

| PARAMETER             | MIN         | TYP          | MAX     | UNITS    | TEST COND            |
|-----------------------|-------------|--------------|---------|----------|----------------------|
| PEAK WAVELENGTH       |             | 635 (RED)    |         | nm       |                      |
|                       |             | 585 (YELLOW) |         | nm       |                      |
| FORWARD VOLTAGE (R/Y) |             | 2.0/2.1      | 2.5/2.5 | $V_f$    |                      |
| REVERSE VOLTAGE       | 5.0         |              |         | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY       |             | 10           |         | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE         |             | 160          |         | 2x theta |                      |
| EMITTED COLOR:        | RED/YELLOW  |              |         |          |                      |
| EPOXY LENS FINISH:    | WATER CLEAR |              |         |          |                      |

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

| PARAMETER                      | MAX        | UNITS |
|--------------------------------|------------|-------|
| PEAK FORWARD CURRENT*          | 100        | mA    |
| STEADY CURRENT                 | 30         | mA    |
| POWER DISSIPATION              | 65         | mW    |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/°C |
| OPERATING TEMP.                | -25 TO +85 | °C    |
| STORAGE TEMP.                  | -30 TO +85 | °C    |

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

## NOTES:

- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 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      |
|------|------------------|
| E    | SML-LX1210IYC-TR |

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

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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.



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        |             |              | 4.21.95      |
|           |             |              | PAGE: 1 OF 1 |
|           |             |              | SCALE: N/A   |