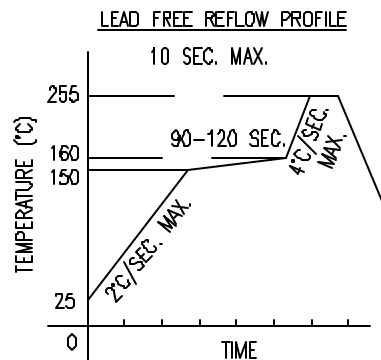
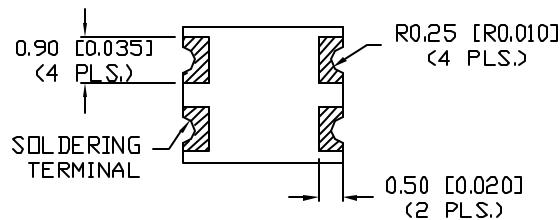
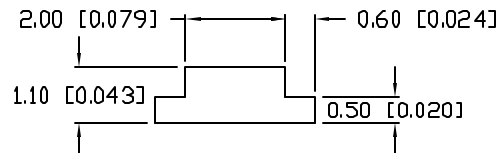
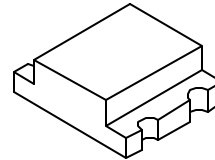
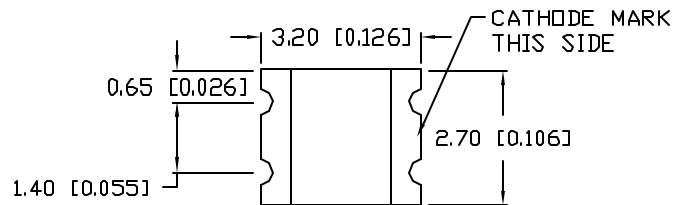
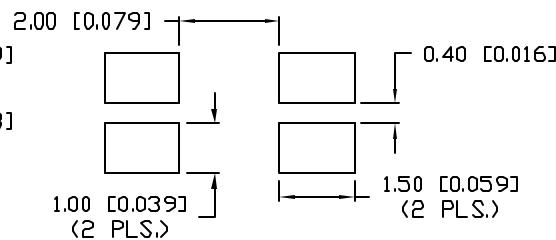
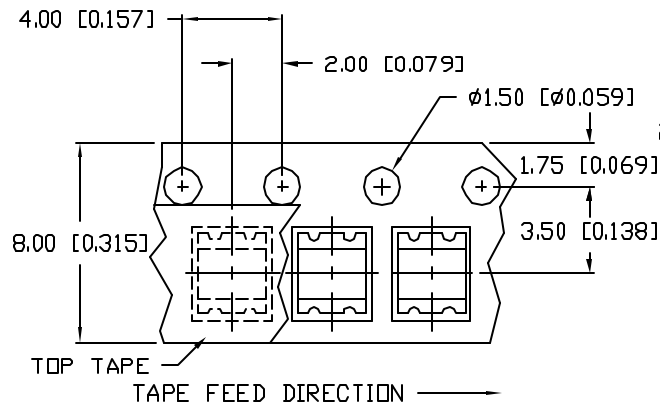


BLUE   
RED 



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

## 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       |             | 635 (RED)  |         | nm       |                      |
|                       |             | 470 (BLUE) |         | nm       |                      |
| FORWARD VOLTAGE (R/B) |             | 2.0/3.5    | 2.4/4.0 | $V_f$    |                      |
| REVERSE VOLTAGE       | 5.0         |            |         | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY       |             | 100        |         | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE         |             | 140        |         | 2x theta |                      |
| EMITTED COLOR:        | RED/BLUE    |            |         |          |                      |
| EPOXY LENS FINISH:    | WATER CLEAR |            |         |          |                      |

## LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | COLORS | MAX        | UNITS |
|-----------------------|--------|------------|-------|
| PEAK FORWARD CURRENT* |        | 80         | mA    |
| STEADY CURRENT        |        | 25         | mA    |
| POWER DISSIPATION     | (R/B)  | 75/105     | mW    |
| DERATE FROM 25°C      |        | -1.2       | mW/°C |
| OPERATING TEMP.       |        | -40 TO +85 | °C    |
| STORAGE TEMP.         |        | -40 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

\*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-LX1210SIUSBCTR

2.7mm x 3.2mm P.C.B. SURFACE MOUNT LED,  
DUAL RED/BLUE CHIPS, WATER CLEAR LENS,  
TAPE AND REEL, 2,000 PIECES PER REEL.

## 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.



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SCALE: N/A