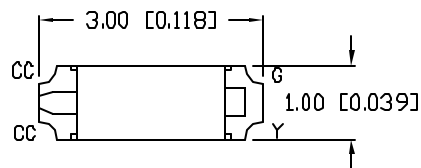
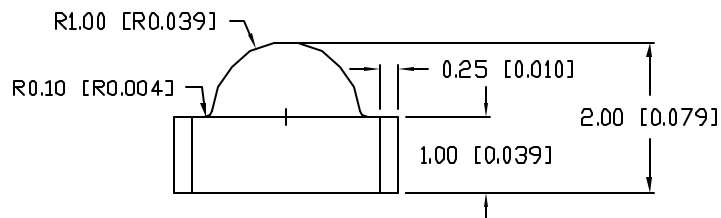
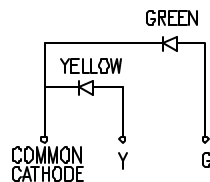


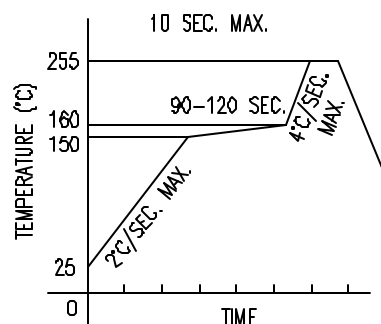
UNCONTROLLED DOCUMENT

PART NUMBER  
SML-LXR851SUGSYCCCREV.  
C

TOP VIEW PIN OUT

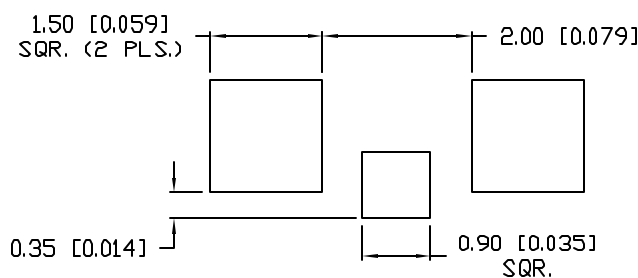


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

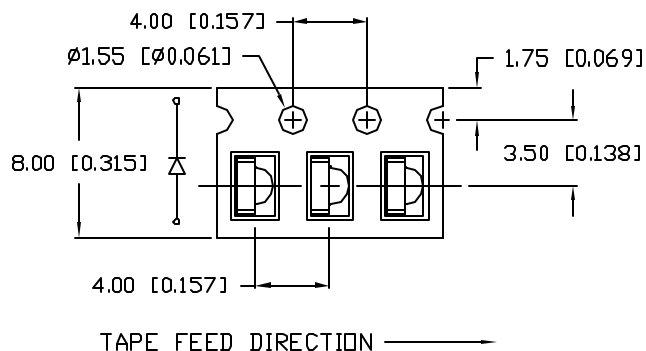
RECOMMENDED SOLDER PAD LAYOUT

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

| PARAMETER          | MIN          | TYP          | MAX | UNITS           | TEST COND            |
|--------------------|--------------|--------------|-----|-----------------|----------------------|
| PEAK WAVELENGTH    |              | 574 (GREEN)  |     | nm              |                      |
|                    |              | 590 (YELLOW) |     | nm              |                      |
| FORWARD VOLTAGE    |              | 2.0          | 2.4 | $V_f$           |                      |
| REVERSE VOLTAGE    | 5.0          |              |     | $V_r$           | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |              | 20/50        |     | mcd             | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |              | 120          |     | $2\times\theta$ |                      |
| EMITTED COLOR:     | GREEN/YELLOW |              |     |                 |                      |
| EPOXY LENS FINISH: | WATER CLEAR  |              |     |                 |                      |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER             | COLORS | MAX        | UNITS |
|-----------------------|--------|------------|-------|
| PEAK FORWARD CURRENT* |        | 160        | mA    |
| STEADY CURRENT        | (G/Y)  | 25/30      | mA    |
| POWER DISSIPATION     |        | 100        | mW    |
| DERATE FROM 25°C      |        | -1.2       | mW/°C |
| OPERATING TEMP.       |        | -40 TO +85 | °C    |
| STORAGE TEMP.         |        | -40 TO +85 | °C    |

\*  $t < 10\mu\text{s}$ 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 MAX.=+0.00 -DECIMAL PRECISION

REV.

C

PART NUMBER

SML-LXR851SUGSYCCC

1.0mm x 3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED,  
BI-COLOR 574nm GREEN/590nm YELLOW LEDS,  
COMMON CATHODE, WATER CLEAR LENS, 2K 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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PAGE: 1 OF 1

SCALE: N/A