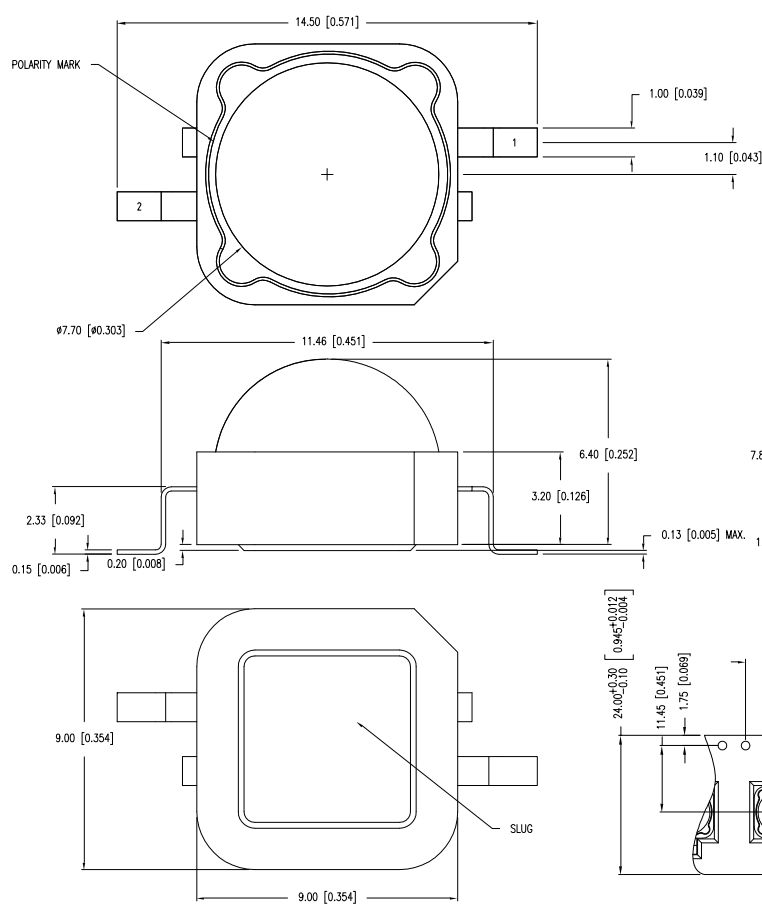


UNCONTROLLED DOCUMENT

PART NUMBER

SML-LXL99SYC-TR/2

REV.

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=500\text{mA}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH | | 598 | | nm | |
| FORWARD VOLTAGE | 2.0 | 2.5 | 3.1 | V_f | $I_f=500\text{mA}$ |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY | 42 | 58 | | lm | $I_f=500\text{mA}$ |
| VIEWING ANGLE | | 100 | | 2x theta | |
| EMITTED COLOR: | YELLOW | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|-----------------------------------|-------------|----------------------|
| PEAK FORWARD CURRENT* | 700 | mA |
| STEADY CURRENT** | 500 | mA |
| LED JUNCTION TEMPERATURE | 110 | $^{\circ}\text{C}$ |
| POWER DISSIPATION | 1.55 | W |
| THERMAL RESISTANCE | 12 | $^{\circ}\text{C/W}$ |
| ELECTROSTATIC DISCHARGE THRESHOLD | 8000 | V |
| OPERATING, STORAGE TEMP. | -40 TO +100 | $^{\circ}\text{C}$ |
| IRON SOLDERING | 350 | $^{\circ}\text{C}$ |
| SOLDERING TIME | 3 | SEC |

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

** WHEN MOUNTING ON MCPCB

NOTES:

1. NOT REFLOW SOLDERING COMPATIBLE.

*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

LUMEX
Creating LED and LCD Solutions Together™

290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
FAX: +1.847.359.6538
WEB: WWW.LUMEX.COM

7.7mm DIA TOP DOME SMT LED HIGH POWER YELLOW 2W.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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.

DATE: 06.28.10 DRAWN BY: JN
PAGE: 1 OF 1 CHKD BY: SS
SCALE: N/A APRVD BY: KF
UNIT: mm [INCH]