

|             |                                     |      |  |
|-------------|-------------------------------------|------|--|
| PART NUMBER | SML-LXL99USBC-TR/5                  | REV. |  |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS | REV. |  |
| 06.15.10    | E.C.N. #: 11648 & REDRAWN           | A    |  |

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=1200\text{mA}$

| PARAMETER          | MIN         | TYP | MAX | UNITS      | TEST COND            |
|--------------------|-------------|-----|-----|------------|----------------------|
| PEAK WAVELENGTH    |             | 465 |     | nm         |                      |
| FORWARD VOLTAGE    | 4.0         | 4.5 | 5.1 | $V_f$      | $I_f=1200\text{mA}$  |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$      | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    | 29          | 55  |     | lm         | $I_f=1200\text{mA}$  |
| VIEWING ANGLE      |             | 100 |     | $2x$ theta |                      |
| EMITTED COLOR:     | BLUE        |     |     |            |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |            |                      |

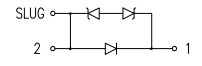
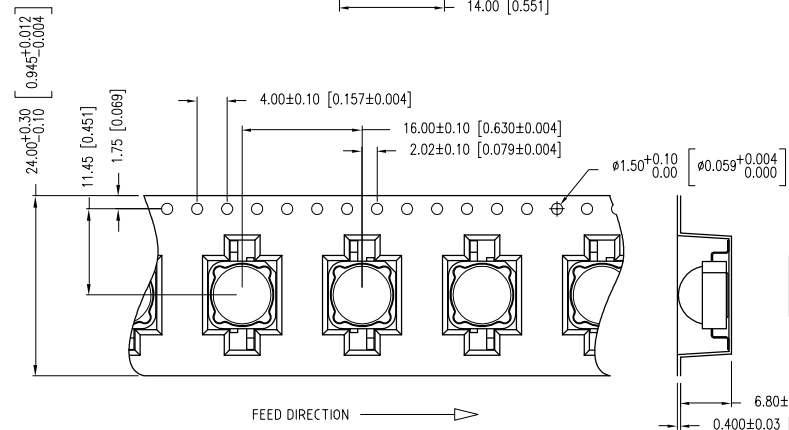
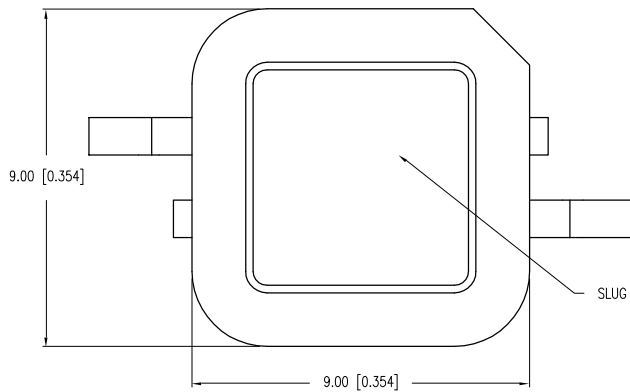
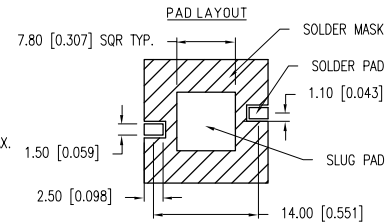
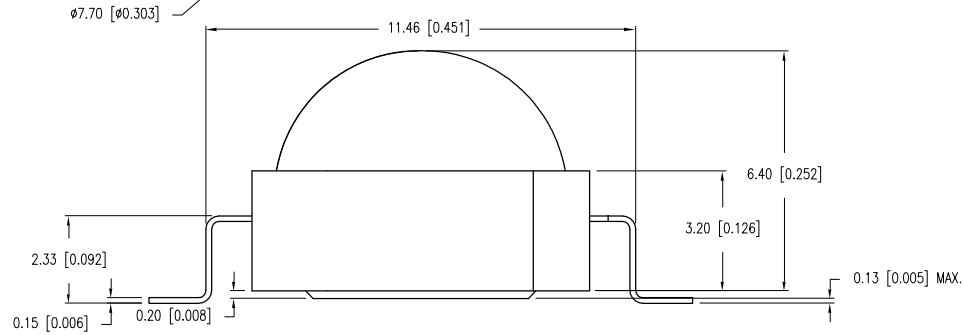
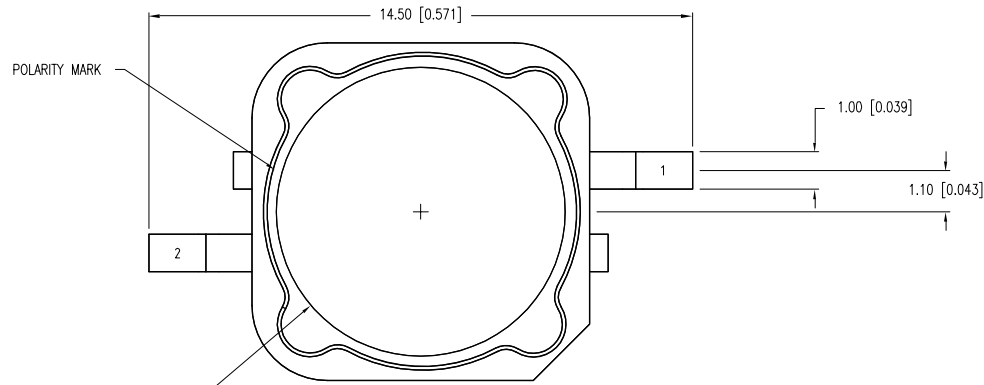
LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

| PARAMETER                        | MAX         | UNITS                        |
|----------------------------------|-------------|------------------------------|
| PEAK FORWARD CURRENT*            | 1500        | mA                           |
| STEADY CURRENT                   | 1200        | mA                           |
| LED JUNCTION TEMPERATURE         | 110         | $^{\circ}\text{C}$           |
| DERATE FROM $25^{\circ}\text{C}$ | -1.2        | $\text{mW}/^{\circ}\text{C}$ |
| OPERATING, STORAGE TEMP.         | -40 TO +100 | $^{\circ}\text{C}$           |
| IRON SOLDERING                   | 350         | $^{\circ}\text{C}$           |
| SOLDERING TIME                   | 3           | SEC                          |

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

NOTES:

1. NOT REFLOW SOLDERING COMPATIBLE.



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

\*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



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7.7mm DIA TOP DOME SMT LED HIGH POWER BLUE 5W.

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

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|--------|-----------|-----------|----|
| DATE:  | 03.24.10  | DRAWN BY: | JN |
| PAGE:  | 1 OF 1    | CHKD BY:  | SS |
| SCALE: | N/A       | APRVD BY: | KF |
| UNIT:  | mm [INCH] |           |    |