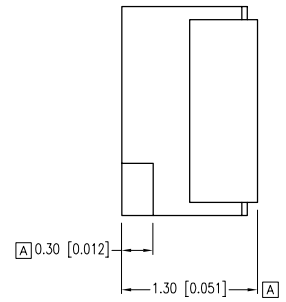
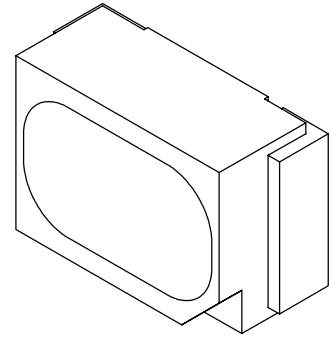
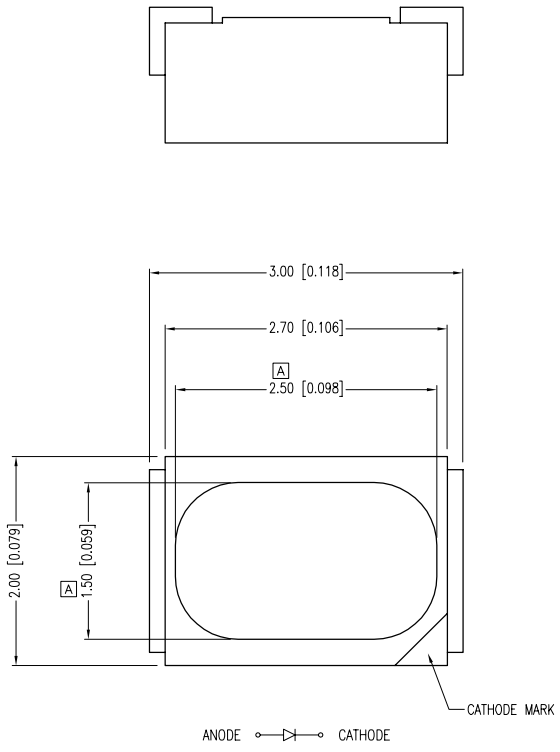
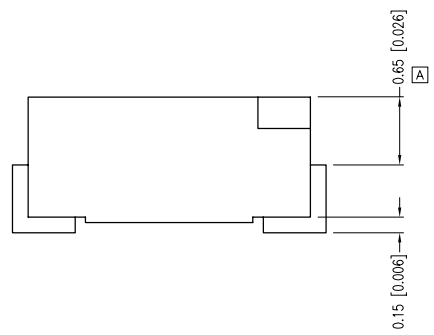
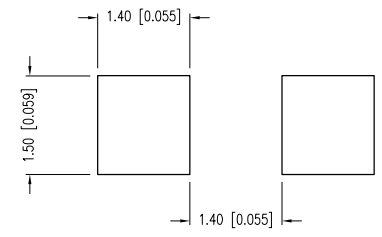


|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LX23UPGC-TR                     | REV. | C    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 12.15.09    | E.C.N. #10603.                      |      | A    |
| 03.28.11    | E.C.N. #10BRDR & REDRAWN.           |      | B    |



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    |                  | 525 |     | nm       |                      |
| FORWARD VOLTAGE    |                  | 3.5 | 4.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0              |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |                  | 500 |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                  | 90  |     | 2x theta |                      |
| EMITTED COLOR:     | GREEN            |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR LENS |     |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 100        | mA    |
| STEADY CURRENT        | 30         | mA    |
| POWER DISSIPATION     | 100        | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -25 TO +80 | °C    |
| STORAGE TEMP.         | -30 TO +85 | °C    |
| SOLDERING TEMP.       | +240       | °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

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= <sup>+DECIMAL PRECISION</sup> <sub>-0.00</sub> MAX= <sup>+0.00</sup> <sub>-DECIMAL PRECISION</sub>

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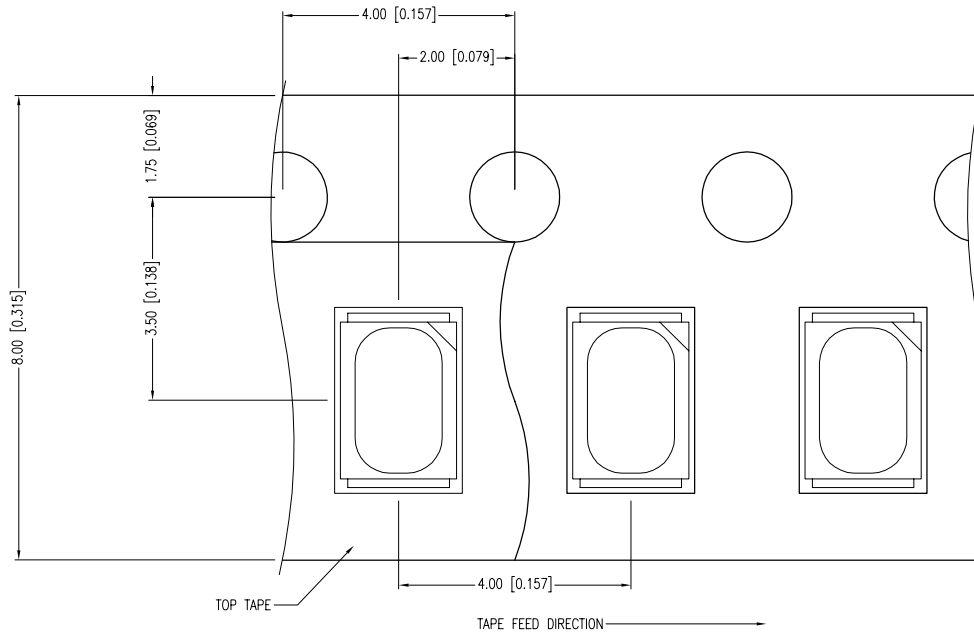
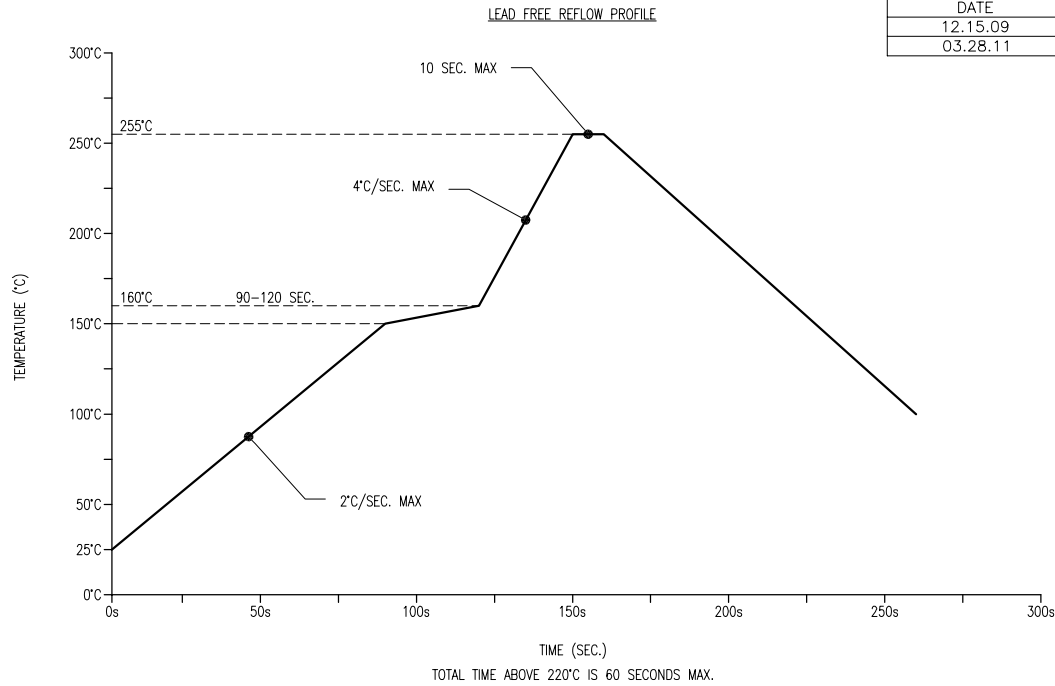
2mm x 3mm SURFACE MOUNT WITH REFLECTOR, 525nm ULTRA PURE GREEN LED, WATER CLEAR LENS.

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

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|--------|-----------|-----------|----|
| DATE:  | 03.28.11  | DRAWN BY: | AB |
| PAGE:  | 1 OF 2    | CHKD BY:  | JD |
| SCALE: | NTS       | APRVD BY: | JD |
| UNIT:  | mm [INCH] |           |    |

|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LX23UPGC-TR                     | REV. | C    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 12.15.09    | E.C.N. #10603.                      |      | A    |
| 03.28.11    | E.C.N. #10BRDR & REDRAWN.           |      | B    |



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| UNIT:  | mm [INCH] |           | Ⓟ  |