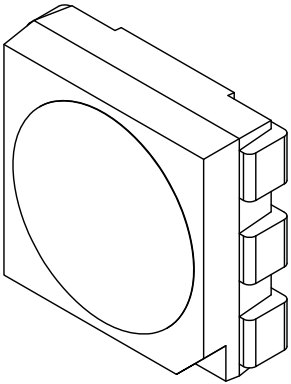
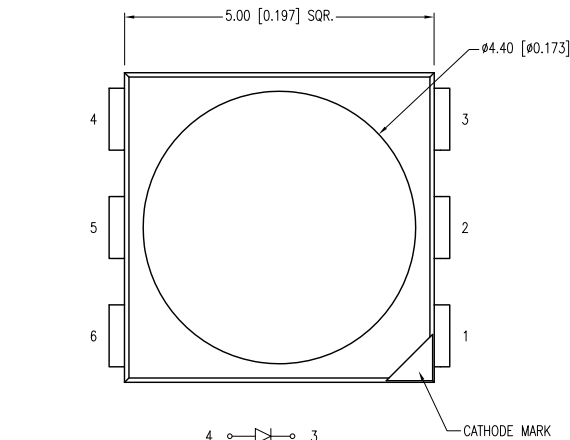


|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LX5050SOC-TR                    | REV. | A    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 02.07.14    | E.C.N. #11896.                      |      | A    |

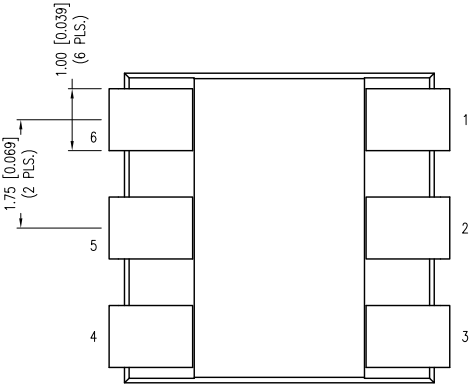
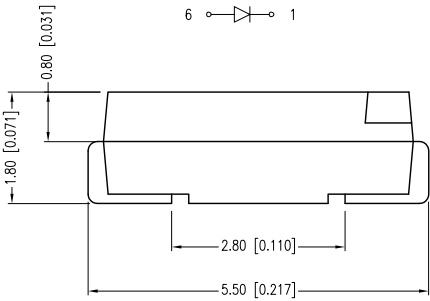


| ELECTRO-OPTICAL CHARACTERISTICS Ta=25°C If=50mA |             |      |      |          |           |
|-------------------------------------------------|-------------|------|------|----------|-----------|
| PARAMETER                                       | MIN         | TYP  | MAX  | UNITS    | TEST COND |
| PEAK WAVELENGTH                                 |             | 625  |      | nm       |           |
| FORWARD VOLTAGE                                 |             | 2.3  | 3.0  | Vf       |           |
| REVERSE VOLTAGE                                 | 5.0         |      |      | Vr       | Ir=10µA   |
| AXIAL INTENSITY                                 |             | 1650 | 2500 | mcd      | If=50mA   |
| VIEWING ANGLE                                   |             | 120  |      | 2x theta |           |
| EMITTED COLOR:                                  | ORANGE      |      |      |          |           |
| LENS FINISH:                                    | WATER CLEAR |      |      |          |           |
| NOTE: VALUES ARE PER DIE.                       |             |      |      |          |           |

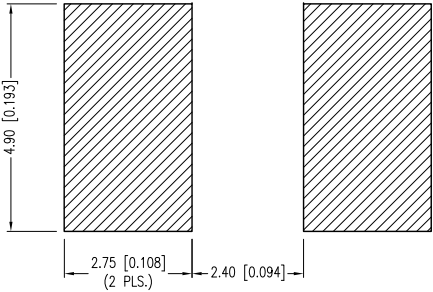
| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 125        | mA    |
| STEADY CURRENT                   | 50         | mA    |
| POWER DISSIPATION                | 150        | mW    |
| DERATE FROM 25°C                 | -1.2       | mW/°C |
| OPERATING TEMP.                  | -40 TO +85 | °C    |
| STORAGE TEMP.                    | -40 TO +85 | °C    |

\* I<10µS  
NOTE: VALUES ARE PER DIE.

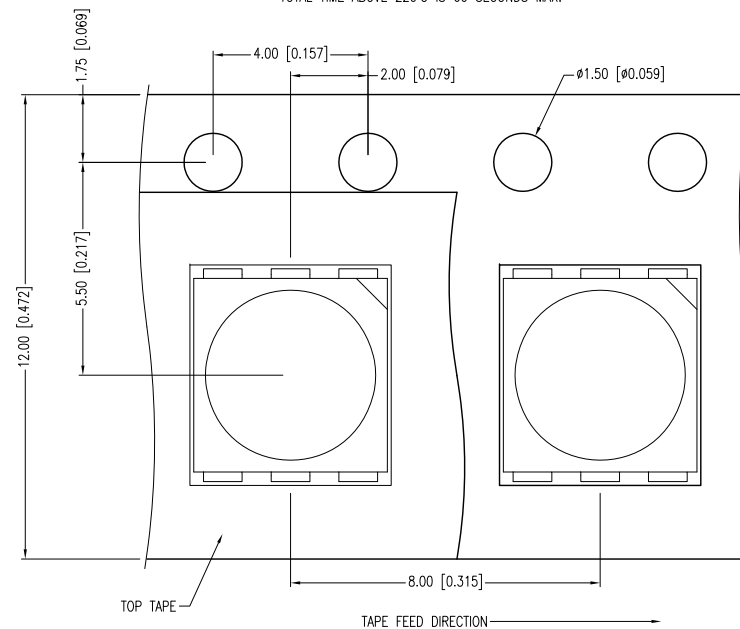
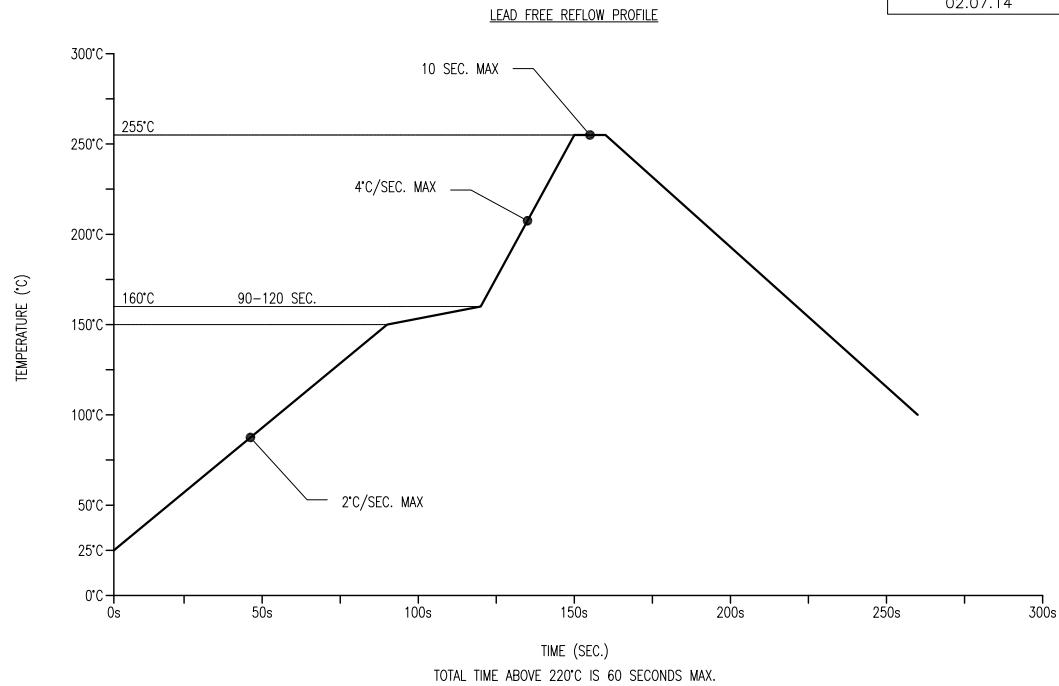
**CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS**



RECOMMENDED SOLDER PAD LAYOUT



|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LX5050SOC-TR                    | REV. | A    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 02.07.14    | E.C.N. #11896.                      |      | A    |

NOTES:

1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. 3,000 PIECES PER REEL.

\*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>

UNCONTROLLED DOCUMENT

5.0x5.0mm SML W/REFLECTOR, 625nm ORANGE, WATER CLEAR, TAPE &amp; REEL.

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

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|--------|-----------|-----------|----|
| DATE:  | 06.21.12  | DRAWN BY: | AB |
| PAGE:  | 2 OF 2    | CHKD BY:  | DT |
| SCALE: | NTS       | APRVD BY: | DT |
| UNIT:  | mm [INCH] |           | Ⓟ  |