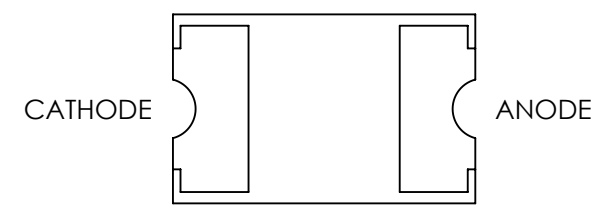
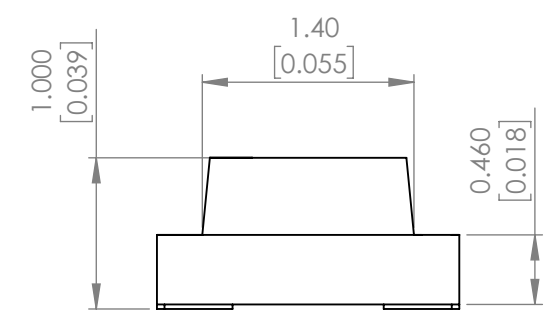
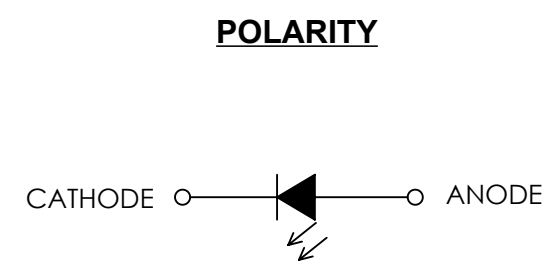
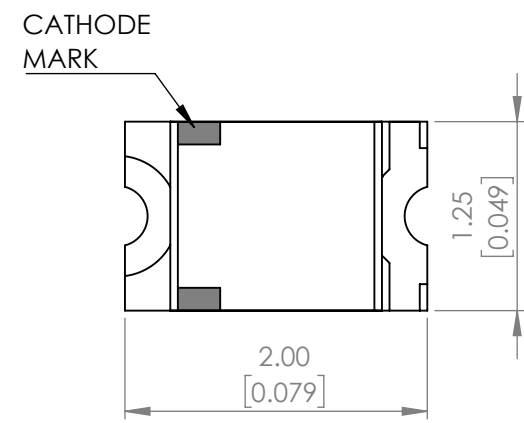
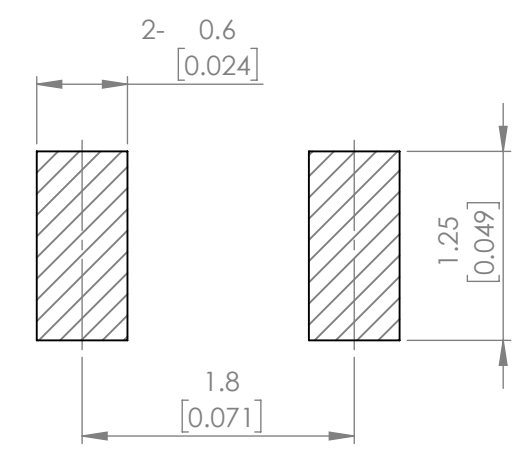


|                    |  |             |   |
|--------------------|--|-------------|---|
| <b>PART NUMBER</b> | SML-LX0805USBC-TR                          | <b>REV</b>  | F |
| <b>REV</b>         | <b>E.C.N. NUMBER AND REVISION COMMENTS</b> | <b>DATE</b> |   |
| A                  | E.C.N. #10862                              | 05.09.02    |   |
| B                  | E.C.N. #10967                              | 03.14.03    |   |
| C                  | E.C.N. #11148                              | 01.17.05    |   |
| D                  | E.C.N. #11508                              | 03.06.09    |   |
| E                  | E.C.N. #10BRDR & REDRAWN                   | 05.07.12    |   |
| F                  | ECN-Lumex201800059                         | 07.10.17    |   |



**RECOMMENDED SOLDER PAD LAYOUT**



**ELECTRO-OPTICAL CHARACTERISTIC TA=25°C**

| PARAMETER          | MIN         | TYP | MAX | UNITS       | TEST COND |
|--------------------|-------------|-----|-----|-------------|-----------|
| PEAK WAVELENGTH    | -           | 470 | -   | nm          | If=20mA   |
| FORWARD VOLTAGE    | -           | 3.5 | 4.3 | Vf          | If=20mA   |
| REVERSE VOLTAGE    | -           | -   | 10  | uA          | VR=5V     |
| LUMINOUS INTENSITY | -           | 25  | -   | mcd         | If=20mA   |
| VIEWING ANGLE      | -           | 140 | -   | 2x theta1/2 | -         |
| EMITTED COLOR      | RED         |     |     |             |           |
| EPOXY LENS FINISH  | WATER CLEAR |     |     |             |           |

**ABSOLUTE MAXIMUM RATINGS TA=25°C**

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 100        | mA    |
| FORWARD CURRENT       | 30         | mA    |
| REVERSE VOLTAGE       | 5          | V     |
| POWER DISSIPATION     | 120        | mW    |
| STORAGE TEMPERATURE   | -40 TO +90 | °C    |
| OPERATING TEMPERATURE | -40 TO +85 | °C    |

\*t<10us

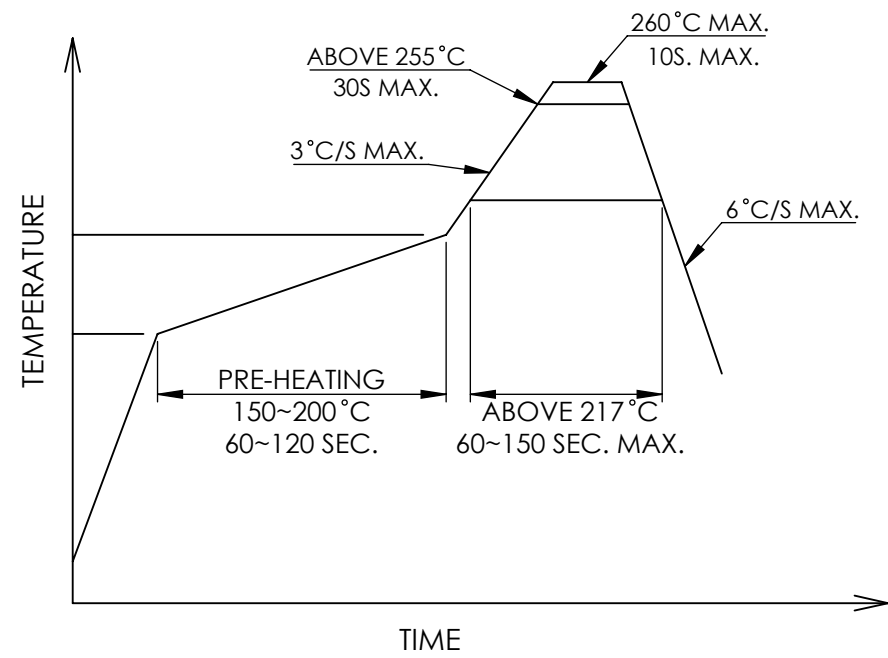
**NOTE:**

1. RoHS COMPLIANT.
2. COMPLIANCE WITH EU REACH.
3. COMPLIANCE Halogen Free .  
(Br <900 ppm ,Cl <900 ppm , Br+Cl < 1500 ppm)

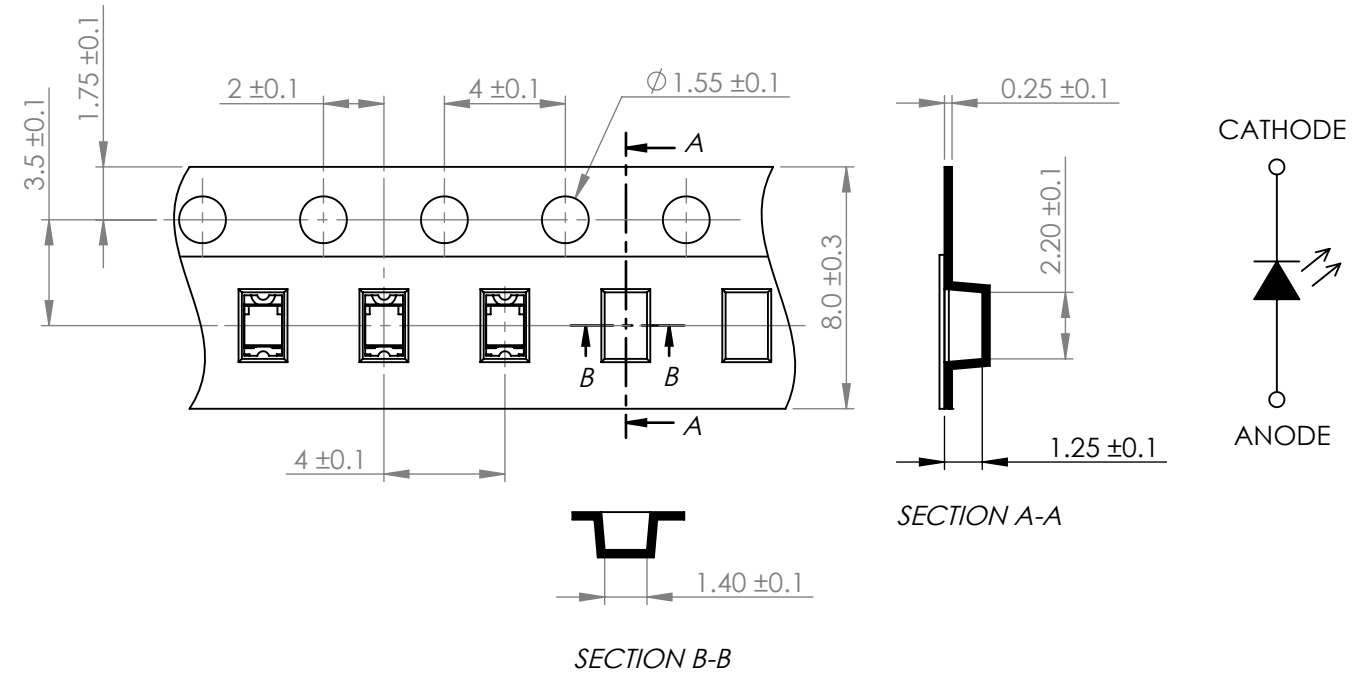
**MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS**

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

**PROFILE**



**CARRIER TAPE DIMENSION**



\*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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 FAX : 630-315-2150  
 WEB : WWW.LUMEX.COM

2(L)\*1.25(W)\*1(H)mm, SURFACE MOUNT TOP VIEW LED, 470nm BLUE RED, WATER CLEAR LENS, TAPE & REEL

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

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|                   |                 |
|-------------------|-----------------|
| DATE : 2017.07.10 | DRAWN BY : E.E. |
| PAGE : 2 OF 2     | CHKD BY : E.C.  |
| SCALE : NTF       | APRVD BY : G.Y. |
| UNIT : mm [INCH]  | Ⓢ               |