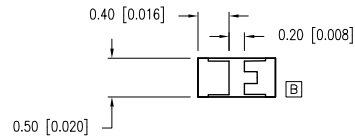
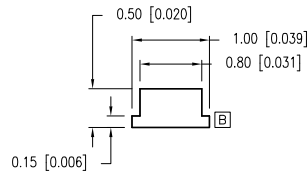
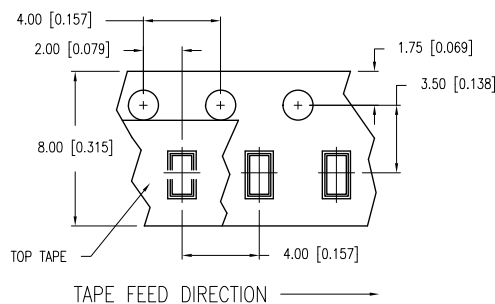
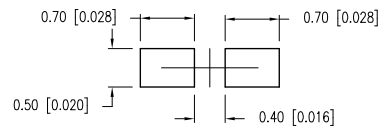


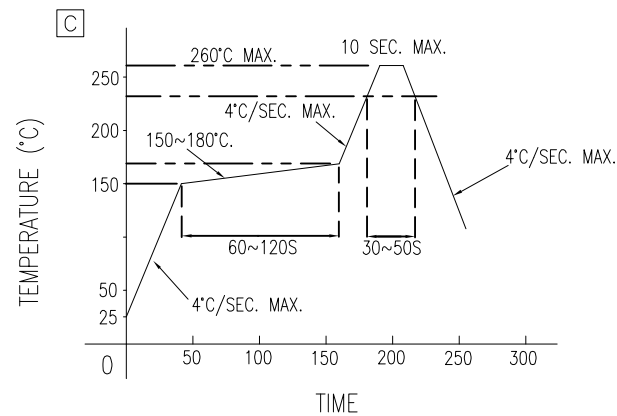
| PART NUMBER | SML-LX0402UPGC-TR                   | REV. | E    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 3.14.03     | E.C.N. #10967                       |      | A    |
| 8.10.04     | E.C.N. #11157                       |      | B    |
| 12.03.04    | E.C.N. #11148                       |      | C    |
| 3.05.09     | E.C.N. #11508                       |      | D    |
| 9.05.16     | ECN-Lumex201600008                  |      | E    |



#### RECOMMENDED SOLDER PAD LAYOUT



#### LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

#### ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$

| PARAMETER                     | MIN         | TYP | MAX | UNITS            | TEST COND           |
|-------------------------------|-------------|-----|-----|------------------|---------------------|
| PEAK WAVELENGTH               |             | 515 |     | nm               | $I_f=20\text{mA}$   |
| FORWARD VOLTAGE               |             | 3.3 | 4.0 | $V_f$            | $I_f=20\text{mA}$   |
| REVERSE VOLTAGE               |             |     | 5.0 | $V_r$            | $I_r=50\mu\text{A}$ |
| <b>[B]</b> LUMINOUS INTENSITY |             | 450 |     | mcad             | $I_f=20\text{mA}$   |
| VIEWING ANGLE                 |             | 120 |     | 2 theta $_{1/2}$ |                     |
| EMITTED COLOR:                | GREEN       |     |     |                  |                     |
| EPOXY LENS FINISH:            | WATER CLEAR |     |     |                  |                     |

#### LIMITS OF SAFE OPERATION AT 25°C PERCHIP

| PARAMETER                  | MAX        | UNITS |
|----------------------------|------------|-------|
| PEAK FORWARD CURRENT*      | 150        | mA    |
| FORWARD CURRENT            | 25         | mA    |
| POWER DISSIPATION          | 102.5      | mW    |
| <b>[B]</b> OPERATING TEMP. | -40 TO +85 | °C    |
| STORAGE TEMP.              | -40 TO +85 | °C    |

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

#### NOTES:

- PARTS PACKAGED IN CONDUCTIVE COVER AND CARRIER TAPE.
- THE CATHODE IS ORIENTATED TOWARDS THE TAPE SPROCKET HOLE.

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

**[D]** CAUTION: 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.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

|  |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                          |  |                 |                |
|--|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|----------------|
|  | 425 N. GARY AVE.<br>CAROL STREAM, IL 60188<br>PHONE: 800-278-5666<br>FAX: 630-315-2152<br>WEB: WWW.LUMEX.COM | 1.0mm X 0.5mm SURFACE MOUNT LED, 525nm ULTRA PURE GREEN, WATER CLEAR LENS, TAPE AND REEL.                                                                                                                                                                                                                                                                |  | DATE: 09.05.16  | DRAWN BY: E.C. |
|  |                                                                                                              | **THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**                                                                                                                                                                                                                                                |  | PAGE: 1 OF 1    | CHKD BY: G.Y.  |
|  |                                                                                                              | CONFIDENTIAL INFORMATION<br>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. |  | SCALE: N/A      | APRVD BY: Ray  |
|  |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                          |  | UNIT: mm [INCH] | Ⓢ Ⓜ            |