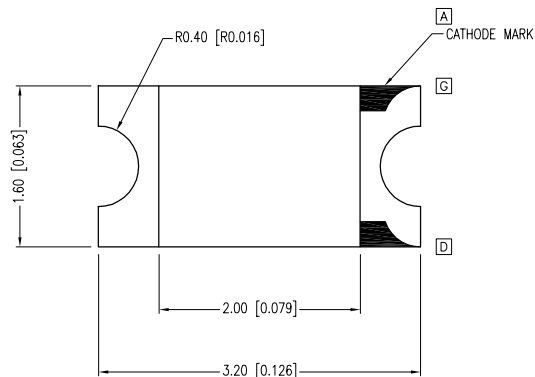
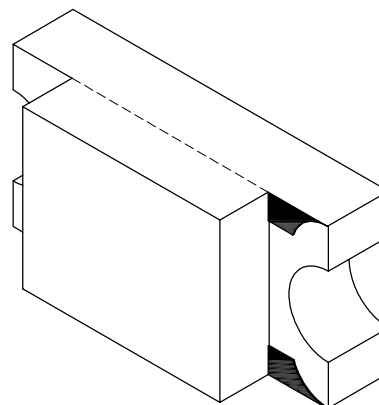
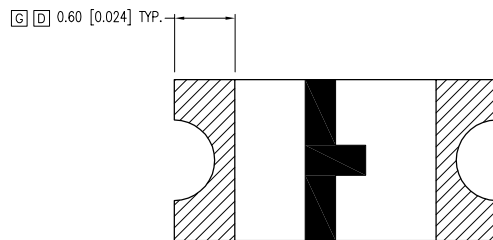
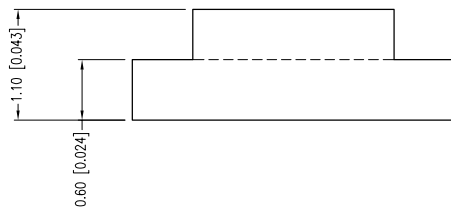


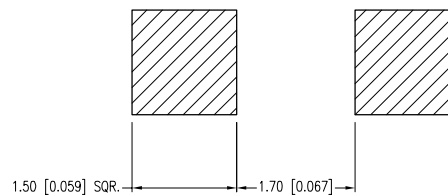
| PART NUMBER | SML-LX1206SYC-TR1                   | REV. | J    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 12.18.97    | E.C.N. #10404                       |      | A    |
| 7.18.00     | E.C.N. #10644. & REDRAWN IN 3D.     |      | B    |
| 5.15.01     | E.C.N. #10737.                      |      | C    |
| 12.3.01     | E.C.N. #10814.                      |      | D    |
| 3.14.03     | E.C.N. #10967.                      |      | E    |
| 1.20.05     | E.C.N. #11148.                      |      | F    |
| 01.07.08    | E.C.N. #11466.                      |      | G    |
| 03.09.09    | E.C.N. #11508.                      |      | H    |
| 08.02.10    | E.C.N. #11644                       |      | I    |
| 04.20.11    | E.C.N. #10BRDR. & REDRAWN.          |      | J    |



ANODE  CATHODE



**G** RECOMMENDED SOLDER PAD LAYOUT



| ELECTRO-OPTICAL CHARACTERISTICS TA =25°C |             | If=20mA |     | UNITS    | TEST COND |
|------------------------------------------|-------------|---------|-----|----------|-----------|
| PARAMETER                                | MIN         | TYP.    | MAX |          |           |
| PEAK WAVELENGTH                          |             | 595     |     | nm       |           |
| FORWARD VOLTAGE                          |             | 2.0     | 2.6 | Vf       |           |
| REVERSE VOLTAGE                          | 5.0         |         |     | Vr       | Ir=100μA  |
| AXIAL INTENSITY                          |             | 70      |     | mcd      | If=20mA   |
| VIEWING ANGLE                            |             | 160     |     | 2x theta |           |
| EMITTED COLOR:                           | YELLOW      |         |     |          |           |
| EPOXY LENS FINISH:                       | WATER CLEAR |         |     |          |           |

**I** LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 100        | mA    |
| STEADY CURRENT        | 25         | mA    |
| POWER DISSIPATION     | 80         | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -40 TO +85 | °C    |
| STORAGE TEMP.         | -40 TO +85 | °C    |

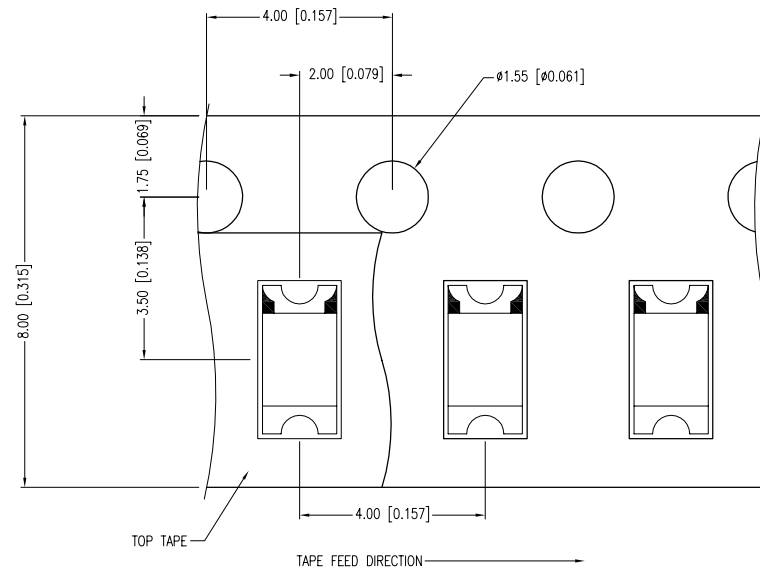
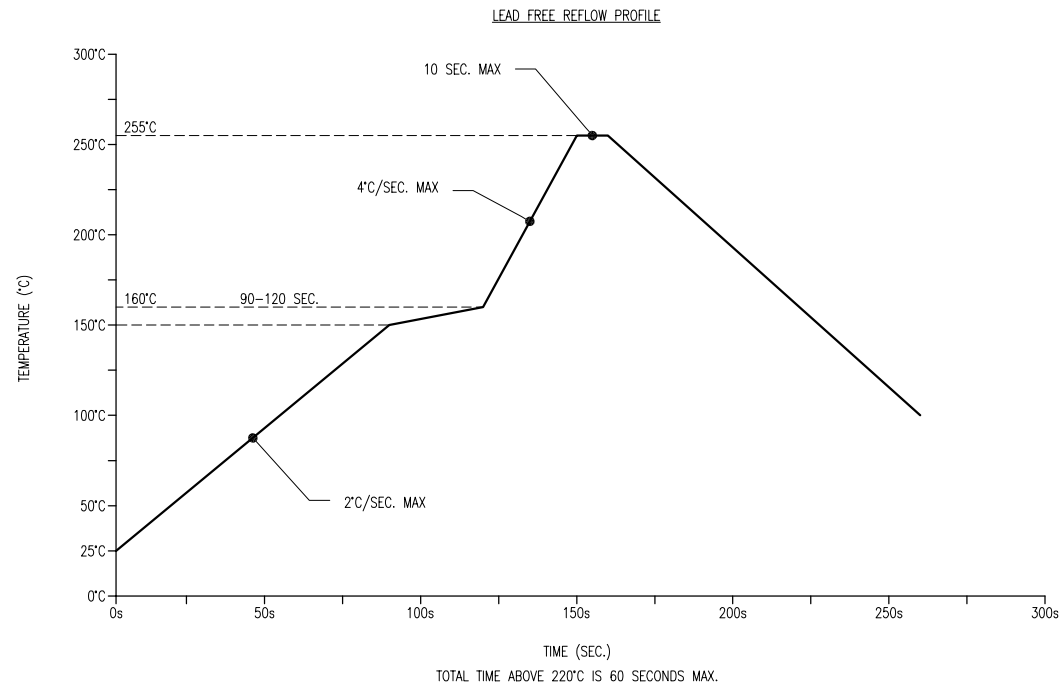
\* t<10μS

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| <b>H</b> <b>E</b> | CAUTION: MOISTURE SENSITIVE DEVICE<br>PER JEDEC LEVEL 2 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>

UNCONTROLLED DOCUMENT

|                                                                                    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                 |              |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--------------|
|  | 290 E. HELEN ROAD<br>PALATINE, IL 60067-6976<br>PHONE: +1.847.359.2790<br>FAX: +1.847.359.6538<br>WEB: WWW.LUMEX.COM | 3.2mm x 1.6mm PCB SURFACE MOUNT LED, 595nm SUPER YELLOW LED, WATER CLEAR LENS, TAPE & REEL.                                                                                                                                                                                                                                                                                                                                                                               |  | DATE: 04.20.11  | DRAWN BY: AB |
|                                                                                    |                                                                                                                      | **THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**<br><br>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. |  | PAGE: 1 OF 2    | CHKD BY: KF  |
|                                                                                    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | SCALE: NTS      | APRVD BY: SS |
|                                                                                    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | UNIT: mm [INCH] | Ⓟ            |

NOTES:

1. THE CATHODE MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. PARTS TO BE SUPPLIED IN BLACK, ANTI-STATIC CARRIER TAPE.

\*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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PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
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3.2mm x 1.6mm PCB SURFACE MOUNT LED, 595nm SUPER YELLOW LED, WATER CLEAR LENS, TAPE & REEL.

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|        |           |           |    |
|--------|-----------|-----------|----|
| DATE:  | 04.20.11  | DRAWN BY: | AB |
| PAGE:  | 2 OF 2    | CHKD BY:  | KF |
| SCALE: | NTS       | APRVD BY: | SS |
| UNIT:  | mm [INCH] |           | Ⓟ  |