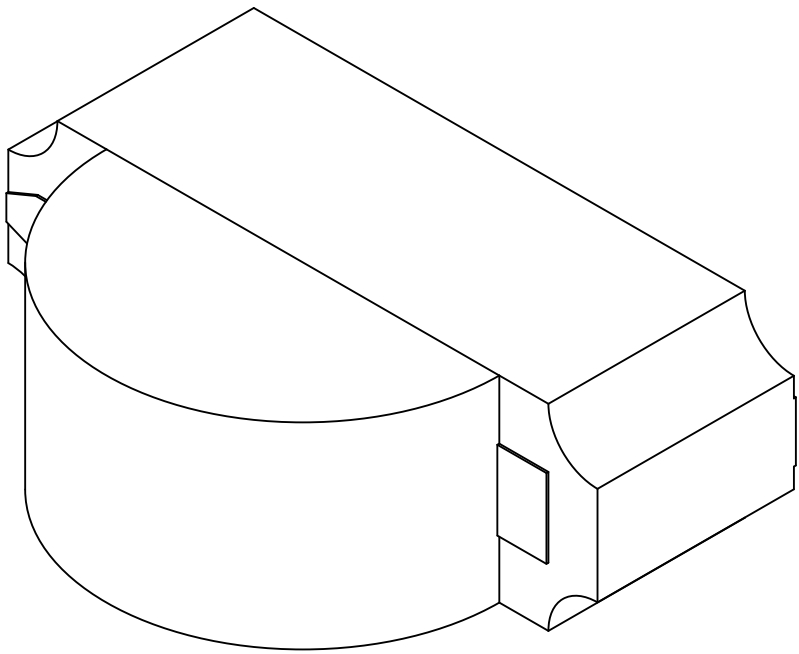
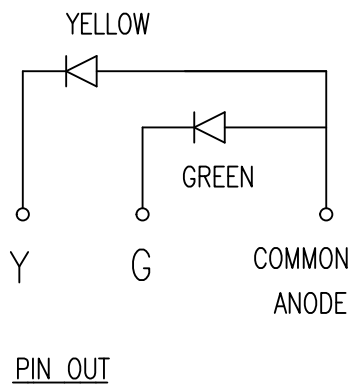
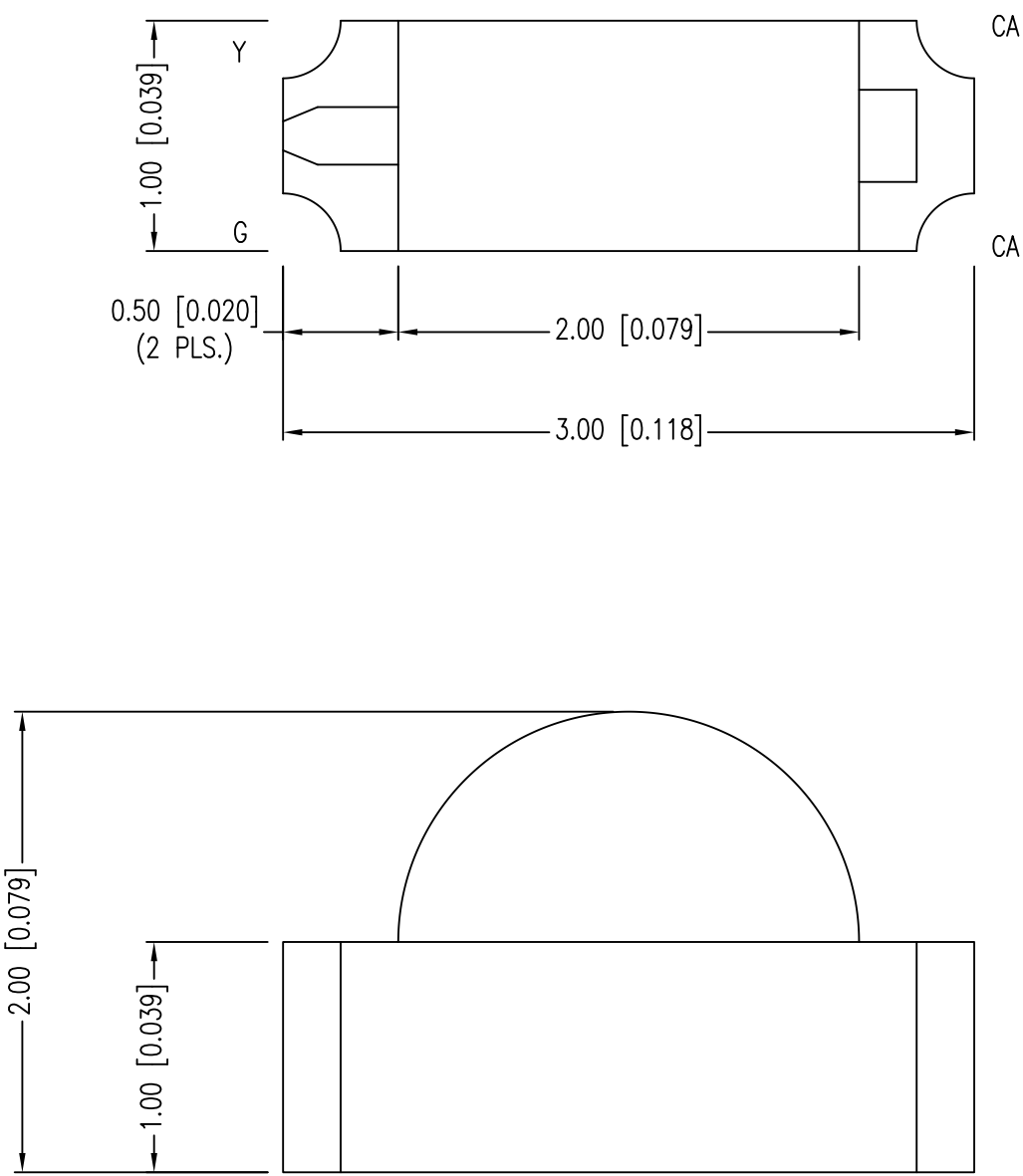


|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LXR851YGC-TR                    | REV. | D    |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 05.16.02    | E.C.N. #10865.                      |      | A    |
| 09.07.04    | E.C.N. #10967.                      |      | B    |
| 05.16.11    | E.C.N. #11710/10BRDR. & REDRAWN.    |      | C    |
| 11.14.18    | ECN-Lumex201800168                  |      | D    |



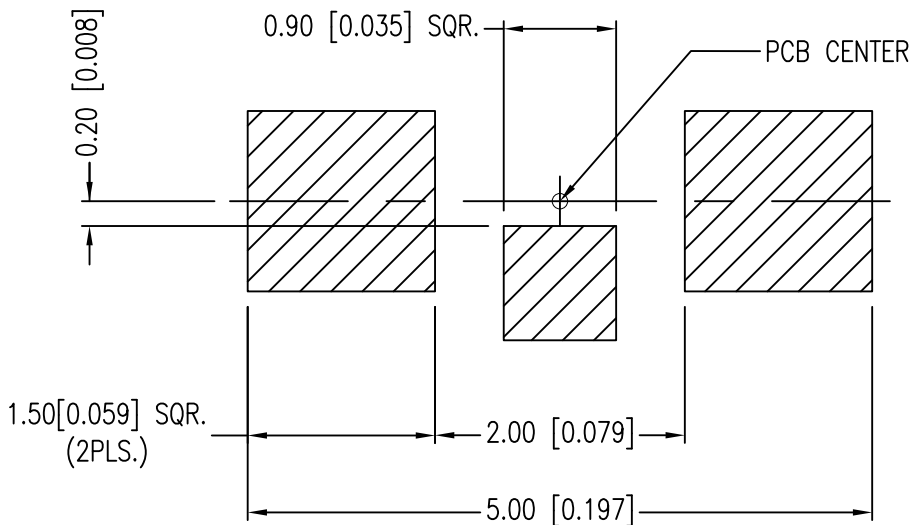
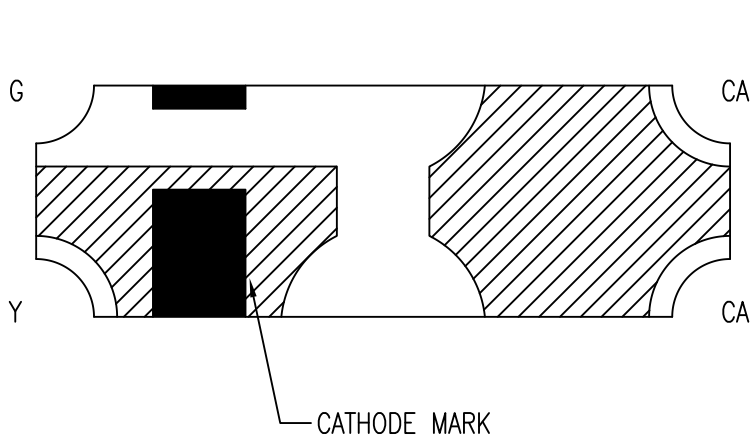
| ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=20mA |              |         |         |              |           |
|--------------------------------------------------|--------------|---------|---------|--------------|-----------|
| PARAMETER                                        | MIN          | TYP.    | MAX     | UNITS        | TEST COND |
| PEAK WAVELENGTH (Y/G)                            |              | 585/565 |         | nm           |           |
| FORWARD VOLTAGE (Y/G)                            |              | 2.1/2.2 | 2.5/2.6 | Vf           |           |
| REVERSE VOLTAGE                                  | 5.0          |         |         | Vr           | Ir=100µA  |
| AXIAL INTENSITY (Y/G)                            |              | 4/8     |         | mcd          | If=20mA   |
| VIEWING ANGLE                                    |              | 160     |         | 2x theta 1/2 |           |
| EMITTED COLOR:                                   | YELLOW/GREEN |         |         |              |           |
| EPOXY LENS FINISH:                               | WATER CLEAR  |         |         |              |           |

| LIMITS OF SAFE OPERATION AT 25°C PER CHIP |            |       |
|-------------------------------------------|------------|-------|
| PARAMETER                                 | MAX        | UNITS |
| PEAK FORWARD CURRENT*                     | 160        | mA    |
| STEADY CURRENT (Y/G)                      | 30/25      | mA    |
| POWER DISSIPATION                         | 100        | mW    |
| DERATE FROM 25°C                          | -1.2       | mW/°C |
| OPERATING TEMP.                           | -40 TO +85 | °C    |
| STORAGE TEMP.                             | -40 TO +85 | °C    |

\* t<10µs

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS

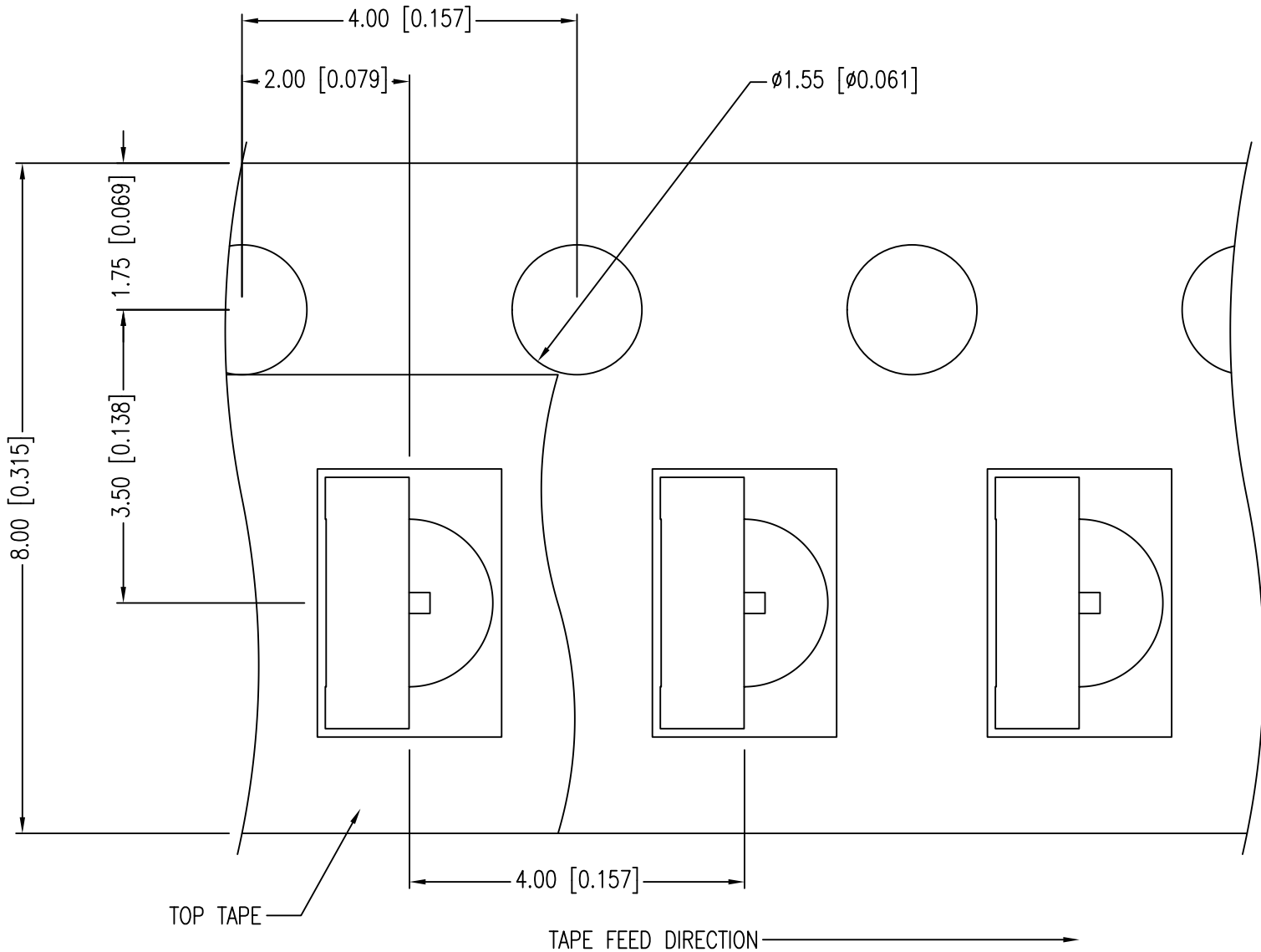
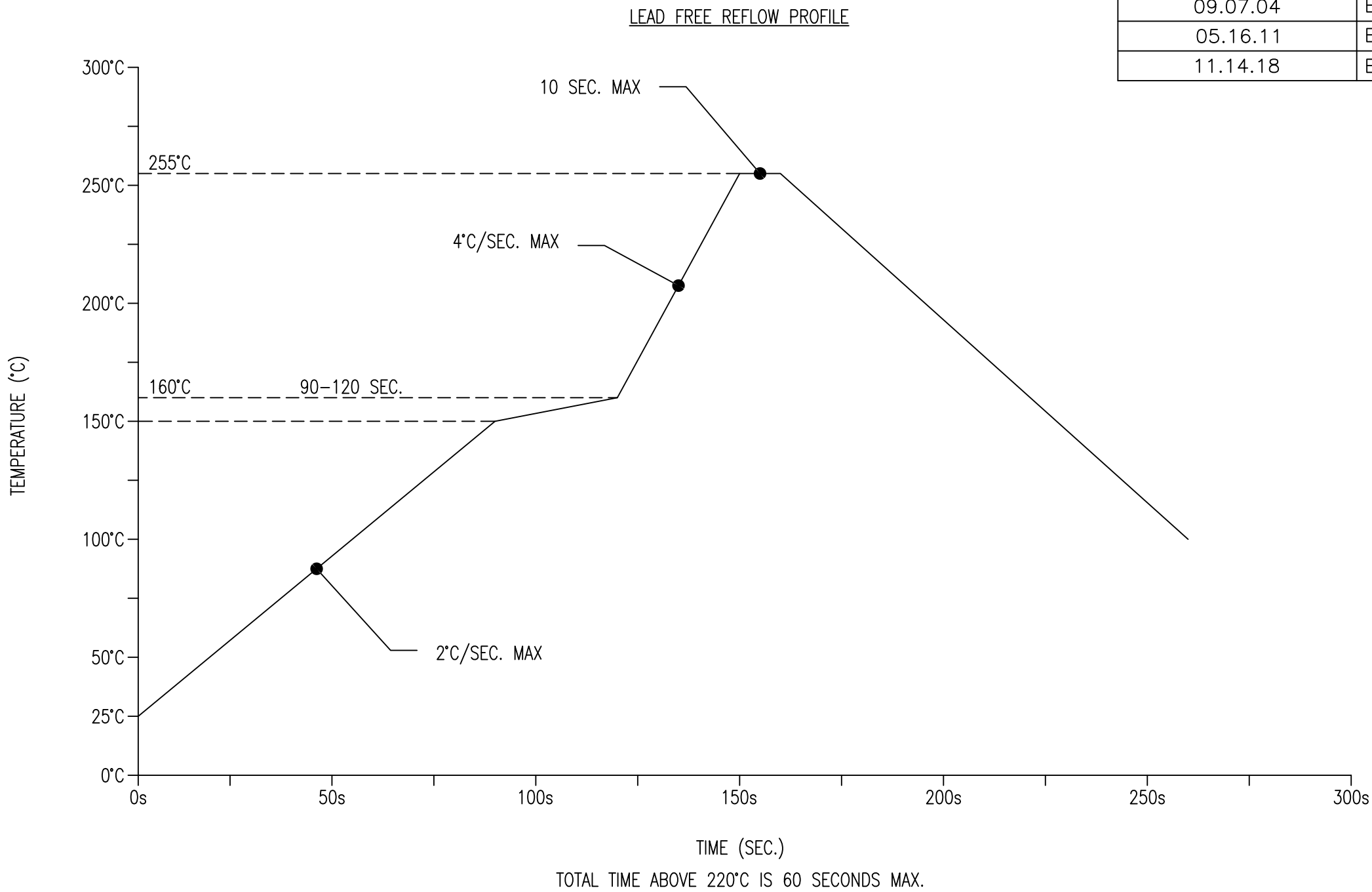
RECOMENDED SOLDER PAD LAYOUT



\*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

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  |                 |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|---------------------------------------------------------------------------------------|
| <br>425 N. GARY AVE.<br>CAROL STREAM, IL 60188-4900<br>PHONE: 800-278-5666<br>FAX: 630-315-2152<br>WEB: WWW.LUMEX.COM | 1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 585/565nm YELLOW/GREEN, WATER CLEAR LENS, TAPE & REEL.                                                                                                                                                                                                                                                      |  | DATE: 11.14.18  | DRAWN BY: C.S.                                                                        |
|                                                                                                                                                                                                         | **THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE.**                                                                                                                                                                                                                                                                                            |  | PAGE: 1 OF 2    | CHKD BY: E.C.                                                                         |
|                                                                                                                                                                                                         | 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: NTS      | APRVD BY: G.Y.                                                                        |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  | UNIT: mm [INCH] |  |

|             |                                     |      |      |
|-------------|-------------------------------------|------|------|
| PART NUMBER | SML-LXR851YGC-TR                    | REV. | D    |
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| 11.14.18    | ECN-Lumex201800168                  |      | D    |



- NOTES:
- 2,000 PER REEL.
  - THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

\*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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1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 585/565nm YELLOW/GREEN, WATER CLEAR LENS, TAPE & REEL.

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|        |           |           |      |
|--------|-----------|-----------|------|
| DATE:  | 11.14.18  | DRAWN BY: | C.S. |
| PAGE:  | 2 OF 2    | CHKD BY:  | E.C. |
| SCALE: | NTS       | APRVD BY: | G.Y. |
| UNIT:  | mm [INCH] |           | (Pb) |