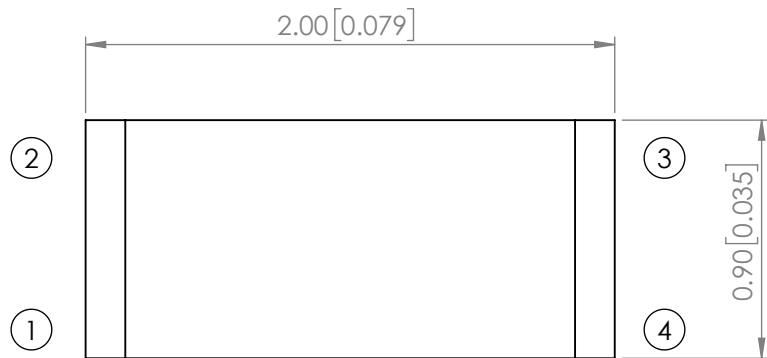
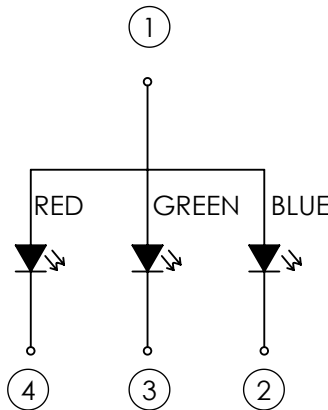


|             |                                     |                    |     |          |
|-------------|-------------------------------------|--------------------|-----|----------|
| PART NUMBER |                                     | SML-LXR0804RGCB-TR | REV | A        |
| REV         | E.C.N. NUMBER AND REVISION COMMENTS |                    |     | DATE     |
| A           | ECN-Lumex201900073                  |                    |     | 06.11.19 |

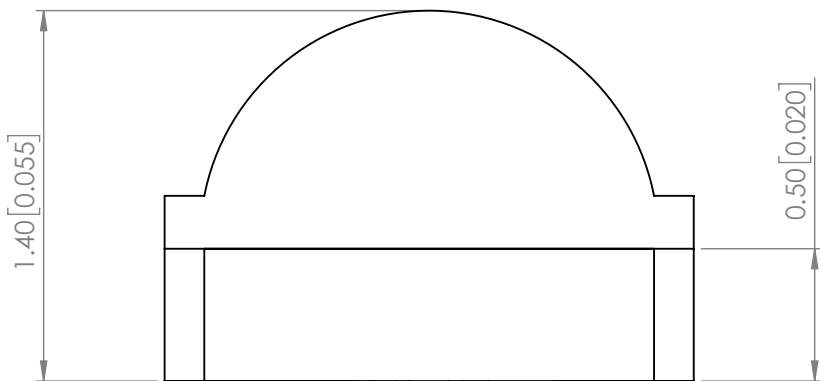


**POLARITY**

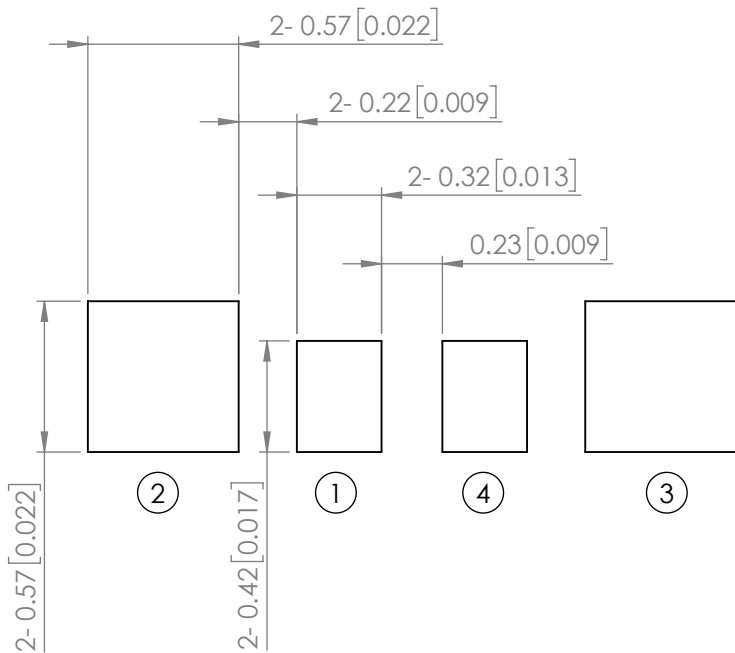
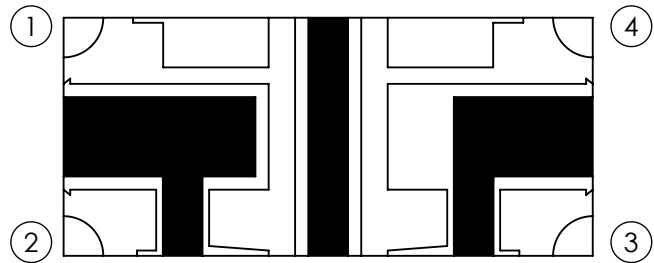


**ELECTRO-OPTICAL CHARACTERISTIC TA=25°C**

| PARAMETER          |   | MIN                | TYP | MAX | UNITS       | TEST COND |
|--------------------|---|--------------------|-----|-----|-------------|-----------|
| PEAK WAVELENGTH    | R | -                  | 630 | -   | nm          | If=20mA   |
|                    | G | -                  | 525 | -   |             |           |
|                    | B | -                  | 475 | -   |             |           |
| FORWARD VOLTAGE    | R | -                  | 2.0 | 2.4 | Vf          | If=20mA   |
|                    | G | -                  | 2.8 | 3.4 |             |           |
|                    | B | -                  | 2.8 | 3.4 |             |           |
| REVERSE CURRENT    | R | -                  | -   | 1   | uA          | VR=5V     |
|                    | G | -                  | -   | 1   |             |           |
|                    | B | -                  | -   | 1   |             |           |
| LUMINOUS INTENSITY | R | -                  | 420 | -   | mcd         | If=20mA   |
|                    | G | -                  | 750 | -   |             |           |
|                    | B | -                  | 130 | -   |             |           |
| VIEWING ANGLE      |   | 105                |     |     | 2x theta1/2 | -         |
| EMITTED COLOR      |   | RED / GREEN / BLUE |     |     |             |           |
| EPOXY LENS FINISH  |   | WATER CLEAR        |     |     |             |           |



**RECOMMENDED SOLDER PAD LAYOUT**



**ABSOLUTE MAXIMUM RATINGS TA=25°C**

| PARAMETER                     | MAX              | UNITS |
|-------------------------------|------------------|-------|
| PEAK FORWARD CURRENT (R/G/B)* | 40 / 30 / 30     | mA    |
| FORWARD CURRENT (R/G/B)       | 20 / 20 / 20     | mA    |
| REVERSE VOLTAGE               | 5                | V     |
| POWER DISSIPATION (R/G/B)     | 48 / 68 / 68     | mW    |
| OPERATING TEMPERATURE         | -40 TO +85       | °C    |
| SOLDERING TEMPERATURE         | 3 SEC. MAX @ 260 | °C    |

\*t<10us

MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

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

\*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>



425 N. GARY AVE.  
CAROL STREAM, IL 60188  
PHONE : 800-278-5666  
FAX : 630-315-2150  
WEB : WWW.LUMEX.COM

2.0(L)\*1.4(W)\*0.9(H)mm, RIGHT ANGLE SURFACE MOUNT LED, AllInGaP 630nm RED / InGaN 525nm GREEN / InGaN 475nm BLUE LED, WATER CLEAR LENS, TAPE & REEL, COMMON ANODE.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE.\*\*

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PAGE : 1 OF 2

CHKD BY : E.C.

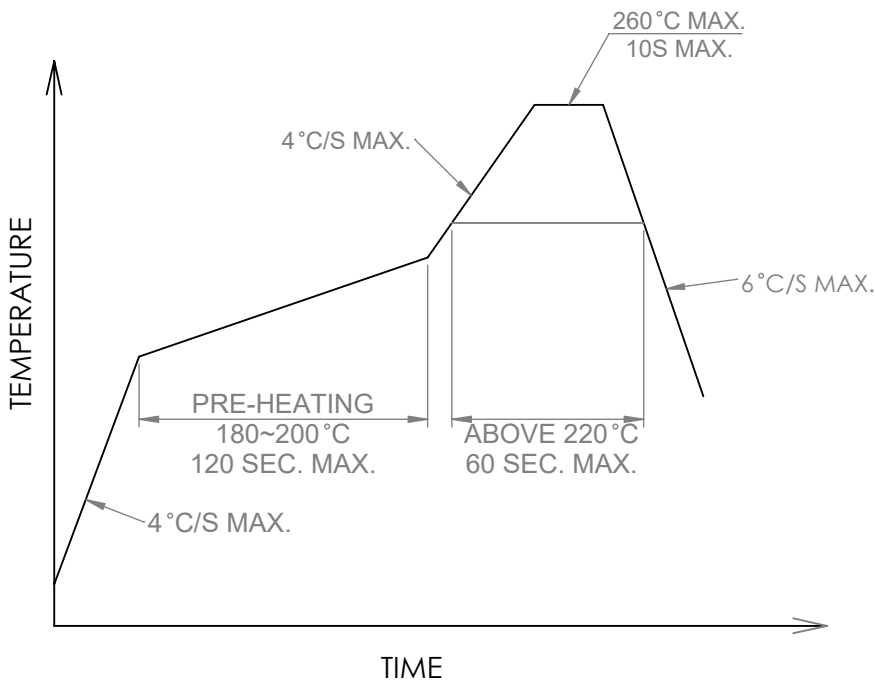
SCALE : NTF

APRVD BY : G.Y.

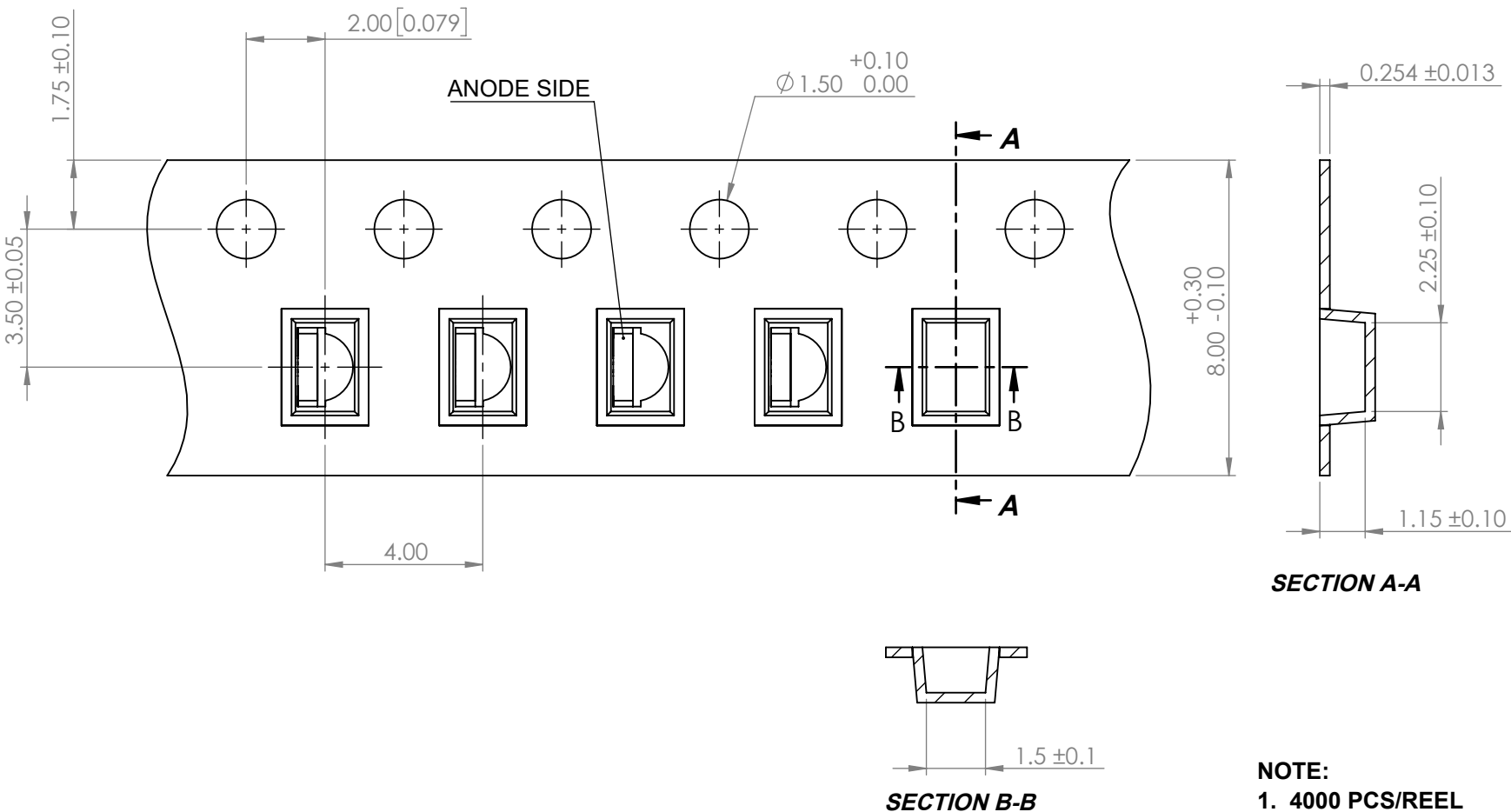
UNIT : mm [INCH]

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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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SCALE : NTF

APRVD BY : G.Y.

UNIT : mm [INCH]

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