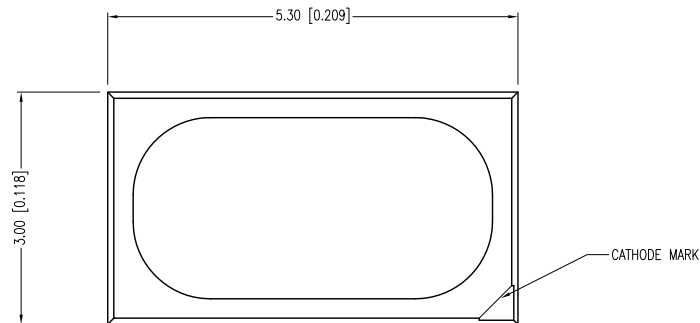
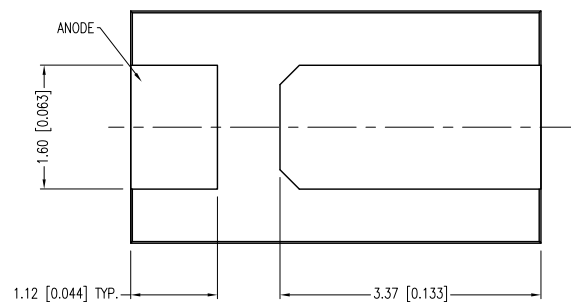
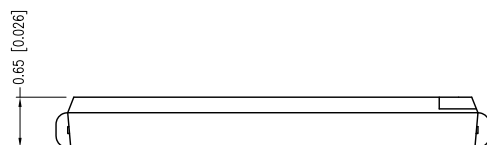
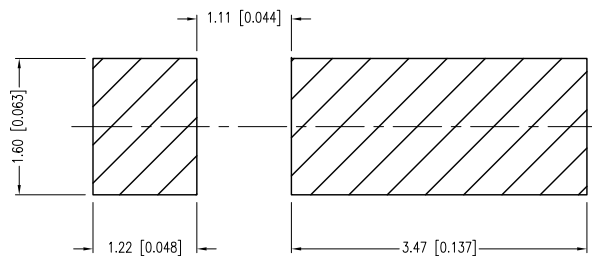




2 1



## RECOMMENDED SOLDER PAD LAYOUT



## ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=150mA

| PARAMETER          | MIN         | TYP. | MAX | UNITS    | TEST COND |
|--------------------|-------------|------|-----|----------|-----------|
| FORWARD VOLTAGE    | 2.8         |      | 3.5 | Vf       | If=150mA  |
| AXIAL INTENSITY*   | 55          |      | 76  | lm       | If=150mA  |
| CHROMATICITY (X)   |             | 0.33 |     |          | If=150mA  |
| COORDINATES (Y)**  |             | 0.34 |     |          |           |
| VIEWING ANGLE      |             | 120  |     | 2x theta |           |
| COLOR TEMP.        |             | 5700 |     | K        |           |
| CRI                | 80          |      |     |          | If=180mA  |
| EMITTED COLOR:     | COOL WHITE  |      |     |          |           |
| EPOXY LENS FINISH: | WATER CLEAR |      |     |          |           |

\*AXIAL INTENSITY TESTING CONDITION 550nm WAVELENGTH.

\*\*THE ICI STANDARD COLORIMETRIC SYSTEM.

## LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX         | UNITS |
|-----------------------|-------------|-------|
| PEAK FORWARD CURRENT* | 300         | mA    |
| STEADY CURRENT        | 180         | mA    |
| POWER DISSIPATION     | 630         | mW    |
| DERATE FROM 25°C      | -1.2        | mW/°C |
| OPERATING TEMP.       | -40 TO +85  | °C    |
| STORAGE TEMP.         | -40 TO +100 | °C    |

\*DUTY CYCLE 1/10 PULSE WIDTH @10ms

\*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



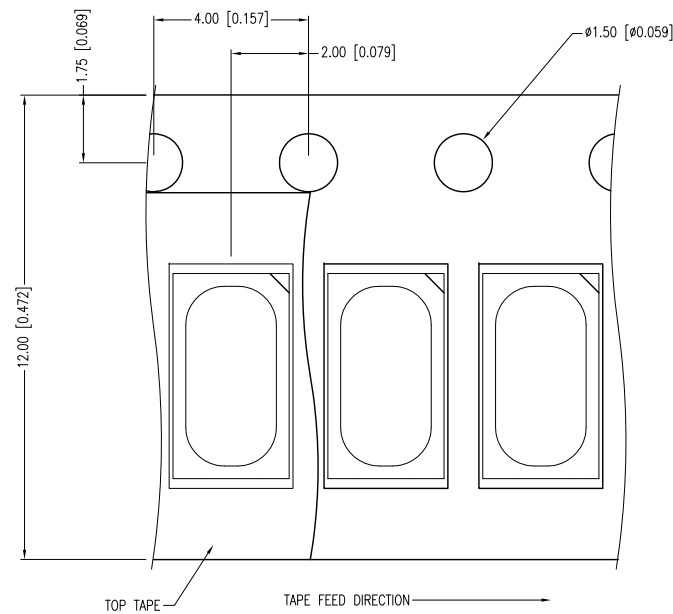
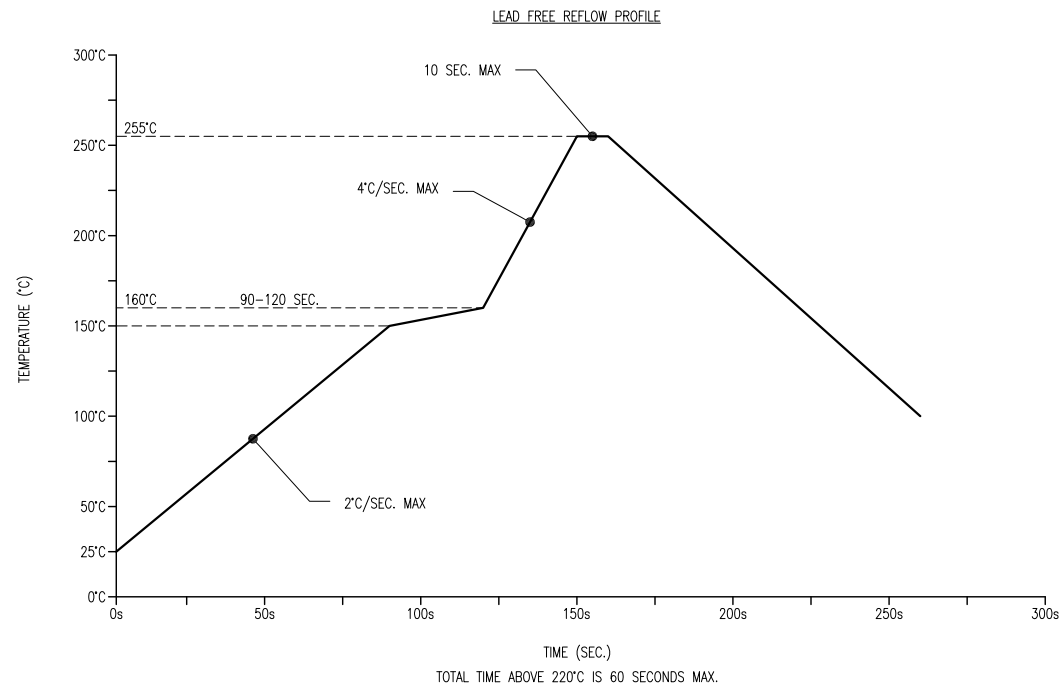
290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
FAX: +1.847.359.6538  
WEB: WWW.LUMEX.COM

5.6mm x 3.0mm 0.5W SMD LED, COOL WHITE.

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

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|--------|-----------|-----------|----|
| DATE:  | 09.23.11  | DRAWN BY: | AB |
| PAGE:  | 1 OF 2    | CHKD BY:  | JD |
| SCALE: | NTS       | APRVD BY: | SS |
| UNIT:  | mm [INCH] |           | Ⓟ  |



\*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=  $\begin{matrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{matrix}$  MAX.=  $\begin{matrix} +0.00 \\ -\text{DECIMAL PRECISION} \end{matrix}$

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