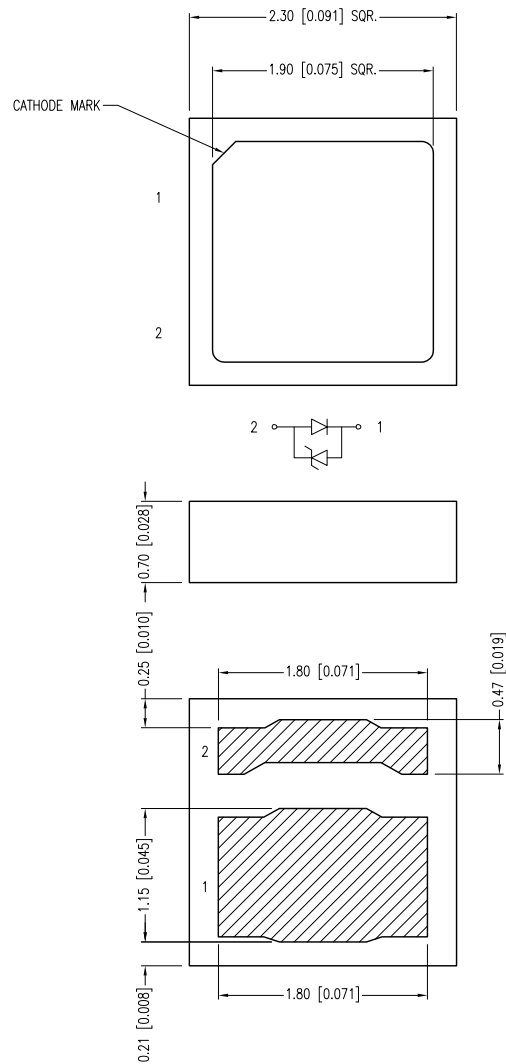
ELECTRO-OPTICAL CHARACTERISTICS  $T_a=25^{\circ}\text{C}$   $I_f=150\text{mA}$ 

| PARAMETER         | SYMBOL      | MIN  | TYP  | MAX  | UNITS    | TEST COND            |
|-------------------|-------------|------|------|------|----------|----------------------|
| PEAK WAVELENGTH   |             |      | -    |      | nm       |                      |
| FORWARD VOLTAGE   | $V_f$       |      | 3.3  | 3.5  | Vf       |                      |
| REVERSE VOLTAGE   | $V_r$       | 5.0  |      |      | Vr       | $I_r=100\mu\text{A}$ |
| LUMINOUS FLUX     |             | 52   | 58   | 60   | lm       | $I_f=150\text{mA}$   |
| COLOR TEMPERATURE |             | 5700 | 5850 | 6020 | °K       |                      |
| VIEWING ANGLE     |             |      | 120  |      | 2x theta |                      |
| EMITTED COLOR:    | COOL WHITE  |      |      |      |          |                      |
| LENS FINISH:      | WATER CLEAR |      |      |      |          |                      |

LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$ 

| PARAMETER                        | MAX         | UNITS |
|----------------------------------|-------------|-------|
| DC FORWARD CURRENT               | 180         | mA    |
| STEADY CURRENT                   | 300         | mA    |
| POWER DISSIPATION                | 500         | mW    |
| DERATE FROM $25^{\circ}\text{C}$ | -1.25       | mW/°C |
| OPERATING TEMP.                  | -40 TO +85  | °C    |
| STORAGE TEMP.                    | -40 TO +100 | °C    |

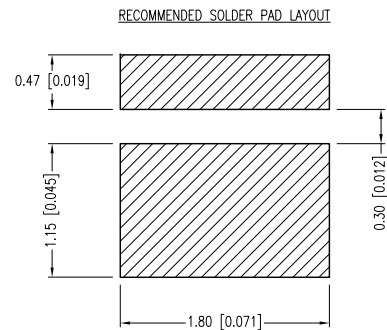
## THERMAL PARAMETERS

| PARAMETER            | VALUE | UNITS |
|----------------------|-------|-------|
| JUNCTION TEMPERATURE | 115   | °C    |
| THERMAL RESISTANCE   | 20    | °C/W  |

| CIE X | CIE Y |
|-------|-------|
| 0.321 | 0.335 |
| 0.322 | 0.324 |
| 0.329 | 0.331 |
| 0.329 | 0.342 |

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

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=  $\begin{smallmatrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{smallmatrix}$  MAX=  $\begin{smallmatrix} +0.00 \\ -\text{DECIMAL PRECISION} \end{smallmatrix}$

UNCONTROLLED DOCUMENT



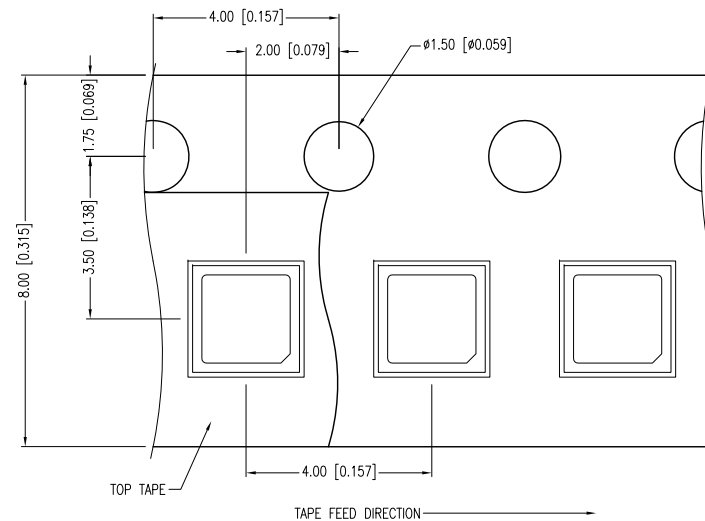
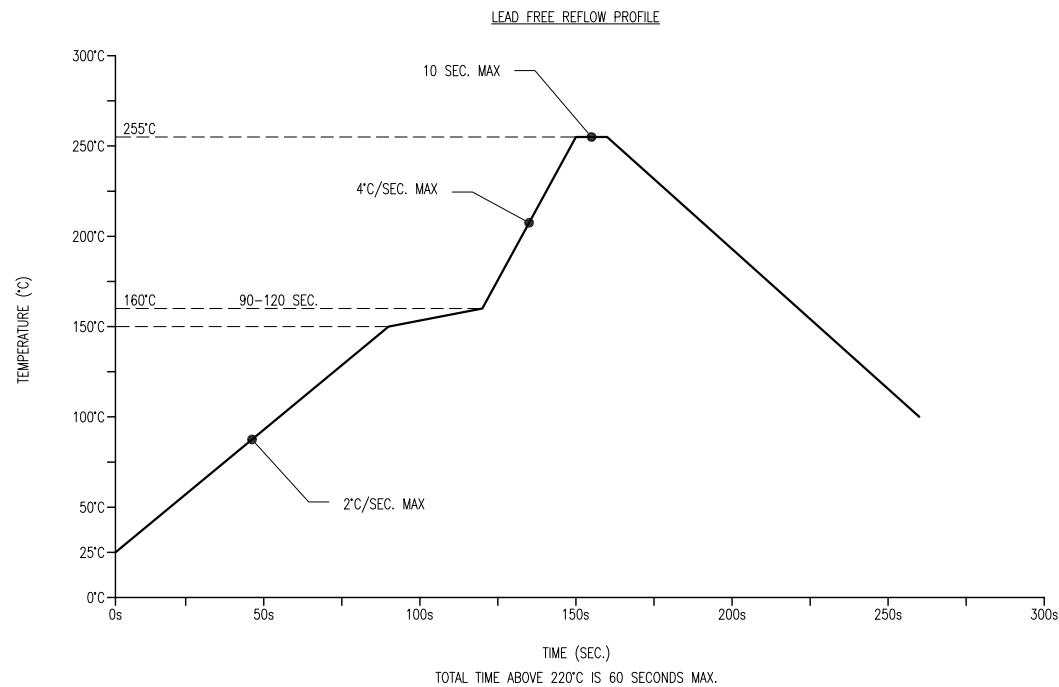
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2.3 x 2.3mm 0.5W SMT LED, COOL WHITE, WATER CLEAR, TAPE &amp; REEL.

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

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|        |           |           |      |
|--------|-----------|-----------|------|
| DATE:  | 10.22.12  | DRAWN BY: | AB   |
| PAGE:  | 1 OF 2    | CHKD BY:  | DT   |
| SCALE: | NTS       | APRVD BY: | DT   |
| UNIT:  | mm [INCH] |           | (Pb) |

NOTES:

1. 4,000 PCS. PER REEL.

\*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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2.3 x 2.3mm 0.5W SMT LED, COOL WHITE, WATER CLEAR, TAPE &amp; REEL.

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