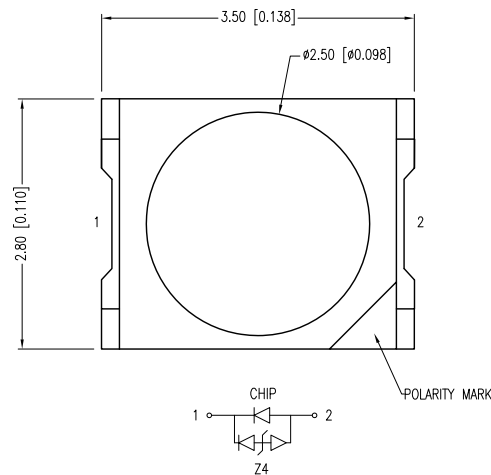
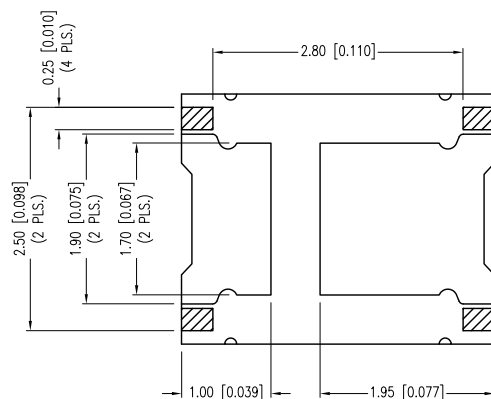
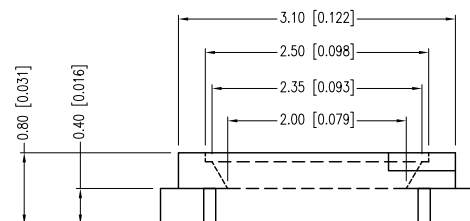


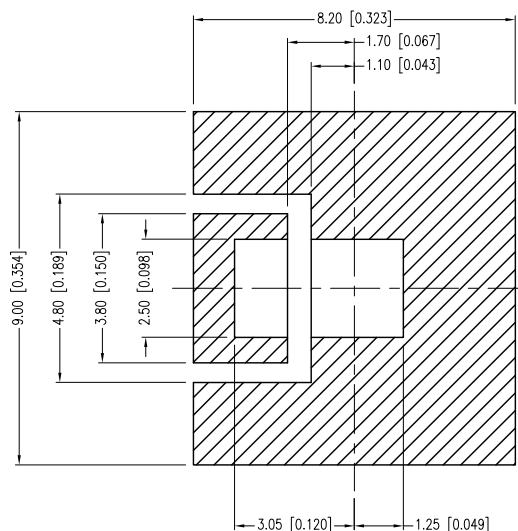
| ELECTRO-OPTICAL CHARACTERISTICS $T_a=25^\circ\text{C}$ $I_f=150\text{mA}$ |             |     |     |       |                     |
|---------------------------------------------------------------------------|-------------|-----|-----|-------|---------------------|
| PARAMETER                                                                 | MIN         | TYP | MAX | UNITS | TEST COND           |
| PEAK WAVELENGTH                                                           |             | 640 |     | nm    | $I_f=150\text{mA}$  |
| FORWARD VOLTAGE                                                           |             | 2.5 | 3.0 | Vf    | $I_f=150\text{mA}$  |
| REVERSE VOLTAGE                                                           | 5.0         |     |     | V     | $V_r=10\mu\text{A}$ |
| LUMINOUS FLUX                                                             | 8.6         | 12  |     | lm    | $I_f=150\text{mA}$  |
| BRIGHTNESS                                                                | 3.1         | 4.2 |     | cd    | $I_f=150\text{mA}$  |
| VIEWING ANGLE                                                             |             | 120 |     |       |                     |
| EMITTED COLOR:                                                            | RED         |     |     |       |                     |
| LENS FINISH:                                                              | WATER CLEAR |     |     |       |                     |

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

| PARAMETER                                  | MAX        | UNITS              |
|--------------------------------------------|------------|--------------------|
| PEAK FORWARD CURRENT*                      | 350        | mA                 |
| STEADY CURRENT                             | 150        | mA                 |
| POWER DISSIPATION                          | 450        | mW                 |
| THERMAL RESISTANCE (JUNCTION/AMBIENT)      | 155        | $^\circ\text{C/W}$ |
| THERMAL RESISTANCE (JUNCTION/SOLDER POINT) | 60         | $^\circ\text{C/W}$ |
| JUNCTION TEMPERATURE                       | 110        | $^\circ\text{C}$   |
| OPERATING TEMP.                            | -40 TO +85 | $^\circ\text{C}$   |
| STORAGE TEMP.                              | -40 TO +85 | $^\circ\text{C}$   |

\*  $t < 10\mu\text{s}$ 

## RECOMMENDED SOLDER PROFILE



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE:  $X=\pm 1$  ( $\pm 0.039$ ),  $X.X=\pm 0.5$  ( $\pm 0.020$ ),  $X.XX=\pm 0.25$  ( $\pm 0.010$ ),  $X.XXX=\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ). MIN=  $\begin{matrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{matrix}$  MAX=  $\begin{matrix} +0.00 \\ -\text{DECIMAL PRECISION} \end{matrix}$

UNCONTROLLED DOCUMENT



425 N. GARY AVE.  
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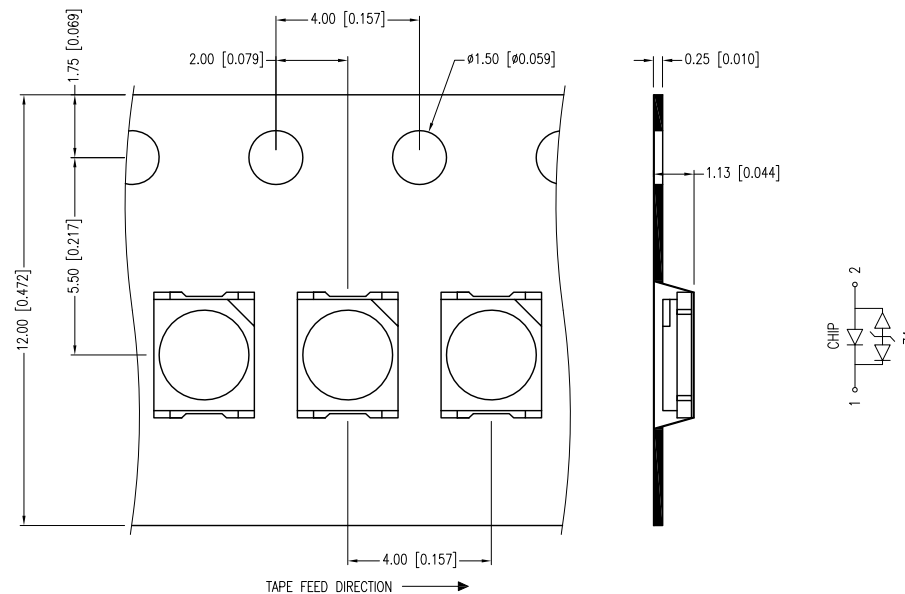
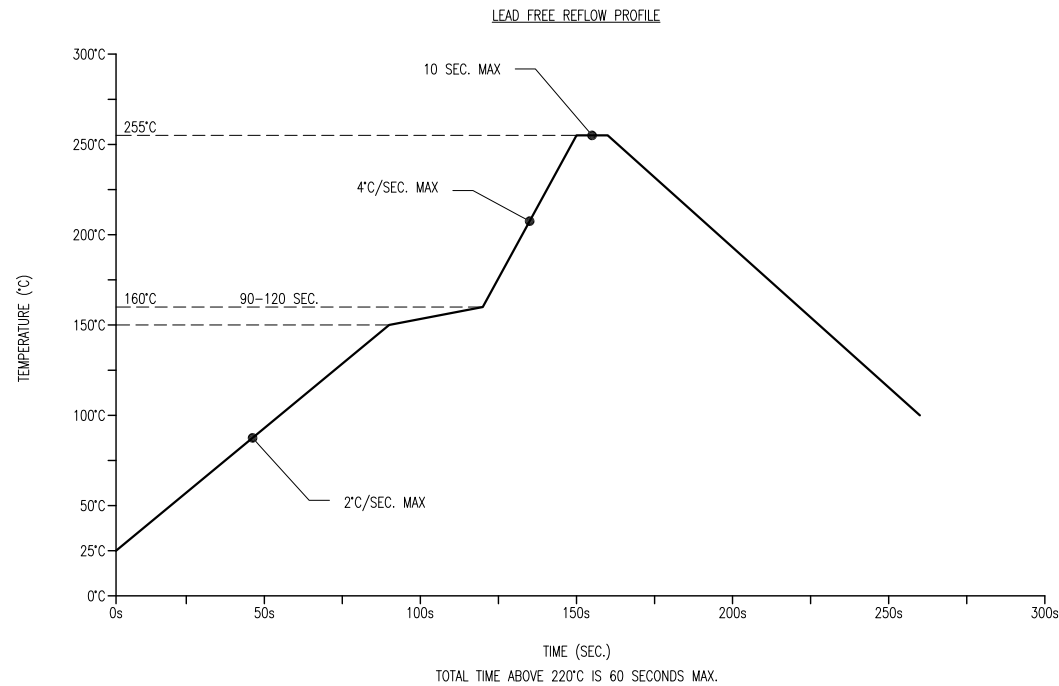
2.8mm X 3.1mm 0.5W SMD LED RED, TAPE AND REEL.

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

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|--------|-----------|-----------|-----|
| DATE:  | 04.11.14  | DRAWN BY: | MA  |
| PAGE:  | 1 OF 2    | CHKD BY:  | KF  |
| SCALE: | NTS       | APRVD BY: | KF  |
| UNIT:  | mm [INCH] |           | (P) |



\*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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