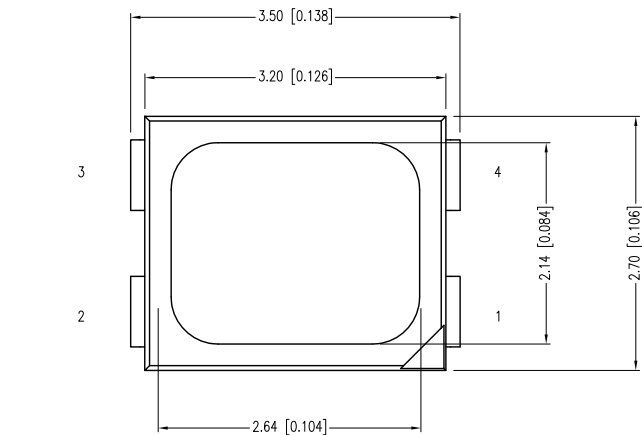
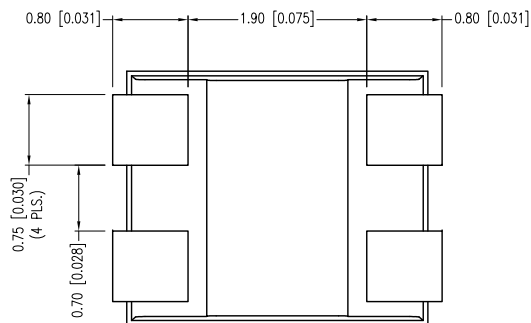
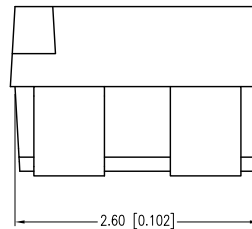
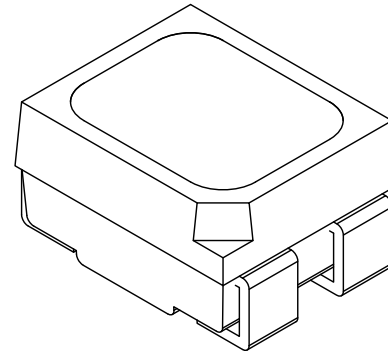
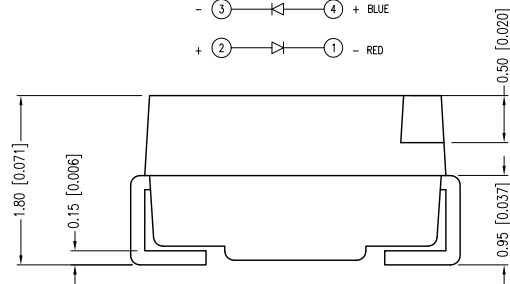




- ③ —|>— ④ + BLUE  
+ ② —|>— ① - RED

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=20\text{mA}$ 

| PARAMETER             | MIN              | TYP     | MAX     | UNITS    | TEST COND            |
|-----------------------|------------------|---------|---------|----------|----------------------|
| PEAK WAVELENGTH (R/B) |                  | 632/468 |         | nm       |                      |
| FORWARD VOLTAGE       |                  | 2.0/3.5 | 2.4/3.7 | $V_f$    |                      |
| REVERSE VOLTAGE       | 5.0              |         |         | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY (R/B) |                  | 150     |         | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE         |                  | 120     |         | 2x theta |                      |
| EMITTED COLOR:        | RED/BLUE         |         |         |          |                      |
| EPOXY LENS FINISH:    | WATER CLEAR LENS |         |         |          |                      |

## LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER               | MAX        | UNITS |
|-------------------------|------------|-------|
| PEAK FORWARD CURRENT*   | 100        | mA    |
| STEADY CURRENT (R/B)    | 50/25      | mA    |
| POWER DISSIPATION (R/B) | 120/95     | mW    |
| DERATE FROM 25°C        | -1.2       | mW/°C |
| OPERATING TEMP.         | -40 TO +85 | °C    |
| STORAGE TEMP.           | -40 TO +85 | °C    |

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

## NOTES:

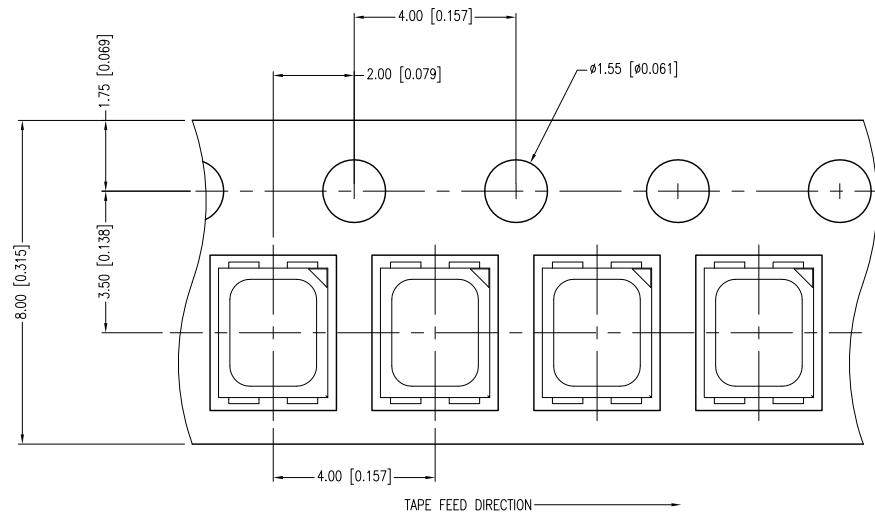
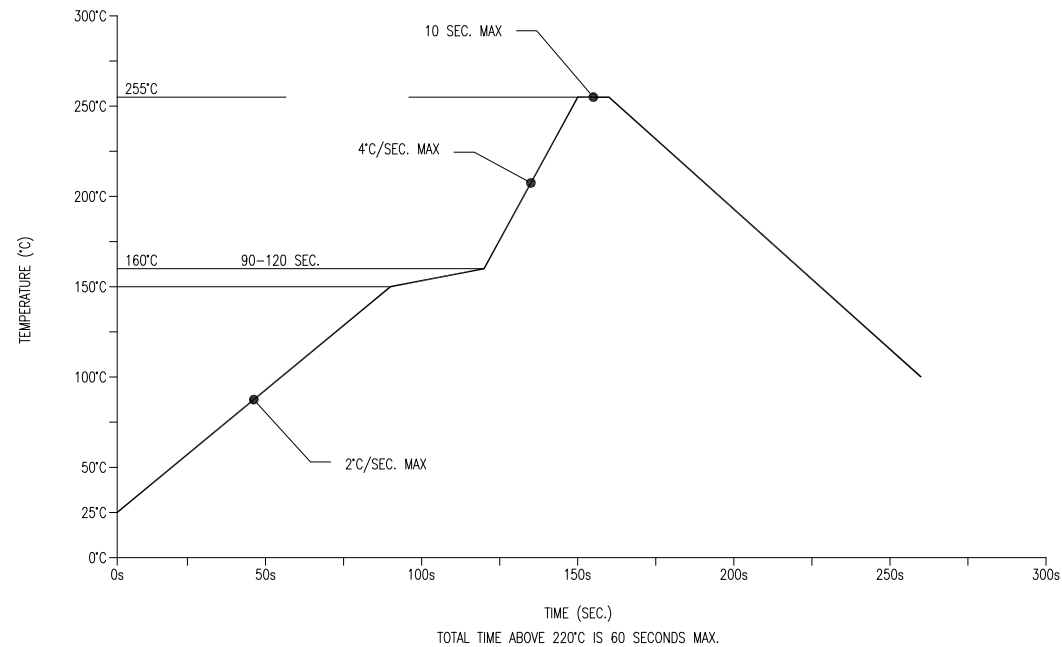
1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS

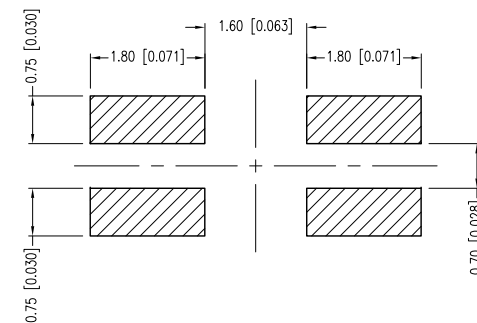
\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=  $\begin{smallmatrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{smallmatrix}$  MAX=  $\begin{smallmatrix}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

UNCONTROLLED DOCUMENT

LEAD FREE REFLOW PROFILE



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

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