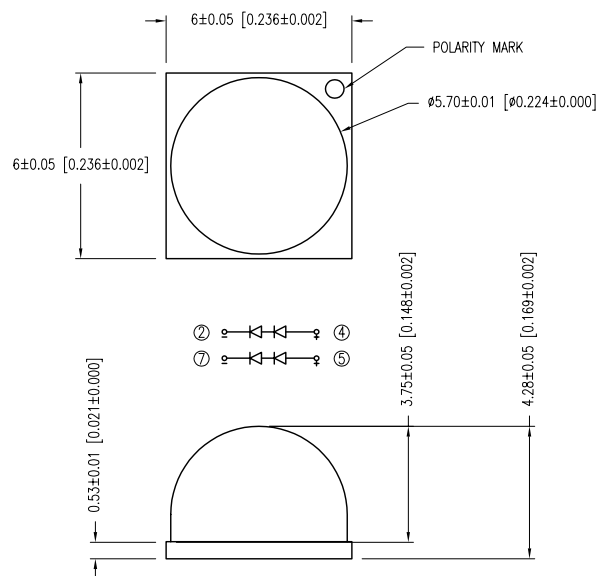
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=700\text{mA}$ 

| PARAMETER          | SYMBOL           | MIN  | TYP  | MAX  | UNITS    | TEST COND           |
|--------------------|------------------|------|------|------|----------|---------------------|
| FORWARD VOLTAGE    | $V_f$            | 6.00 |      | 8.00 | V        | $I_f=700\text{mA}$  |
| REVERSE VOLTAGE    | $V_r$            | 5.0  |      |      | V        | $I_r=10\mu\text{A}$ |
| LUMINOUS FLUX      | $I_v$            | 300  |      | 325  | lm       | $I_f=700\text{mA}$  |
| COLOR TEMPERATURE  |                  | 2580 | 3000 | 3710 | K        |                     |
| CRI                |                  |      | 80   |      |          |                     |
| VIEWING ANGLE      |                  |      | 105  |      | 2x theta |                     |
| EMITTED COLOR:     | WARM WHITE       |      |      |      |          |                     |
| EPOXY LENS FINISH: | WATER CLEAR LENS |      |      |      |          |                     |

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

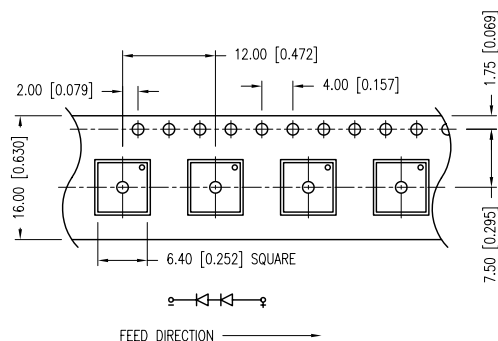
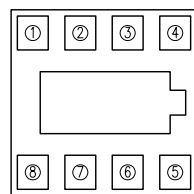
| PARAMETER                        | MAX         | UNITS                  |
|----------------------------------|-------------|------------------------|
| PEAK FORWARD CURRENT             | 1400        | mA                     |
| STEADY CURRENT                   | 800         | mA                     |
| POWER DISSIPATION                | 2.0         | mW                     |
| DERATE FROM $25^{\circ}\text{C}$ | -1.2        | mW/ $^{\circ}\text{C}$ |
| OPERATING TEMP.                  | -40 TO +90  | $^{\circ}\text{C}$     |
| STORAGE TEMP.                    | -40 TO +100 | $^{\circ}\text{C}$     |

## THERMAL PARAMETERS

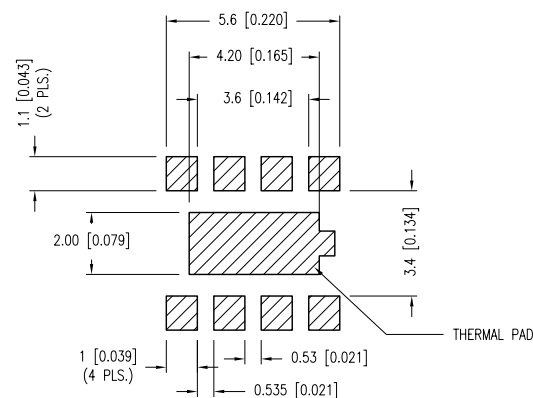
| PARAMETER            | MAX | UNITS                       |
|----------------------|-----|-----------------------------|
| JUNCTION TEMPERATURE | 125 | $^{\circ}\text{C}$          |
| THERMAL RESISTANCE   | 6   | $^{\circ}\text{C}/\text{W}$ |

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 1 STANDARDS

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

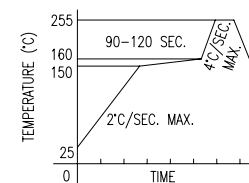


## SOLDER PAD LAYOUT



## LEAD FREE REFLOW PROFILE

10 SEC. MAX.

TOTAL TIME ABOVE  $220^{\circ}\text{C}$  IS 60 SECONDS MAX.

\*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= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT