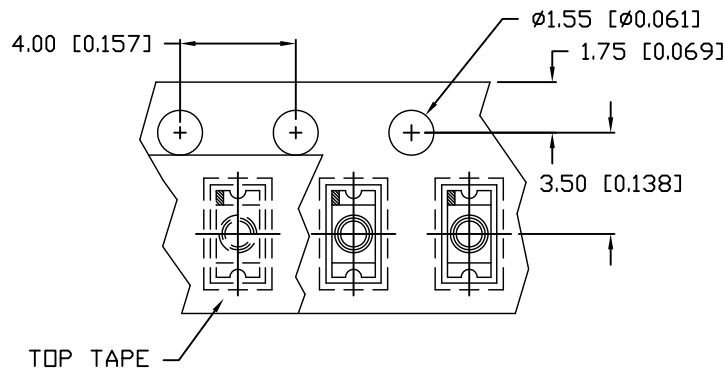
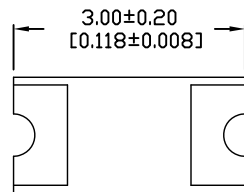
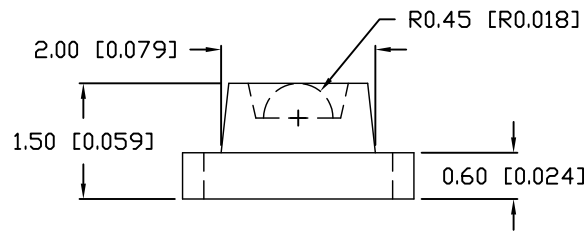


## TOP VIEW POLARITY

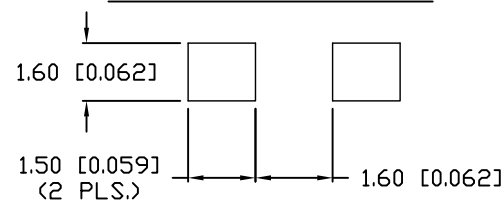
ANODE CATHODE



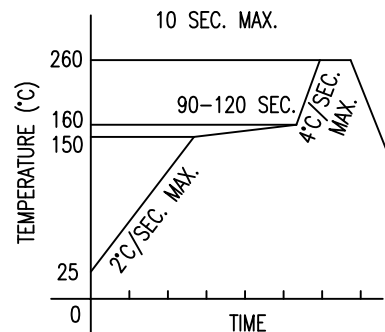
TAPE FEED DIRECTION

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

## RECOMMENDED SOLDER PAD LAYOUT



## LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

## NOTES:

1. 2,000 PIECES PER REEL.
2. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

## ELECTRO-OPTICAL CHARACTERISTICS

Ta=25°C

| PARAMETER          | MIN | TYP | MAX | UNITS | TEST UNITS |
|--------------------|-----|-----|-----|-------|------------|
| FORWARD VOLTAGE    |     | 1.4 | 1.5 | V     | If=50mA    |
| REVERSE VOLTAGE    | 5.0 |     |     | V     | Ir=10µA    |
| POWER OUTPUT       | 1.3 | 2.6 |     | mW/sr | If=20mA    |
| VIEWING ANGLE      |     | 100 |     | DEG.  |            |
| PEAK WAVELENGTH    |     | 870 |     | nm    | If=20mA    |
| SPECTRAL BANDWIDTH |     | 50  |     | nm    | If=20mA    |

## LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                | MAX        | UNITS |
|--------------------------|------------|-------|
| PEAK FORWARD CURRENT*    | 1.0        | A     |
| STEADY CURRENT           | 65         | mA    |
| POWER DISSIPATION        | 110        | mW    |
| DERATE FROM 25°C         | -1.0       | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C    |

DUTY RATIO <1%, FREQUENCY = 1KHz

CAUTION: MOISTURE SENSITIVE DEVICE

PER JEDEC LEVEL 4 STANDARDS



3.0mm X 1.6mm PCB, SURFACE MOUNT LED WITH LENS,  
INFRARED LED, WATER CLEAR LENS, TAPE AND REEL.

## CONFIDENTIAL INFORMATION

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## RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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SCALE: N/A