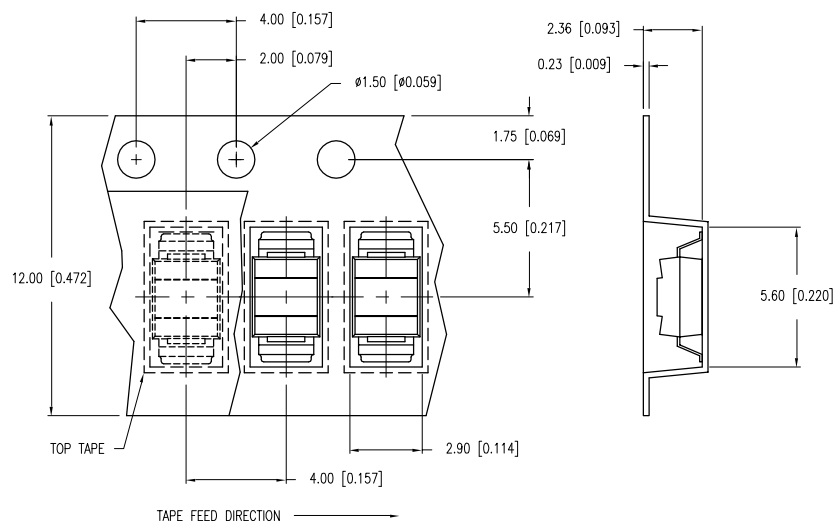
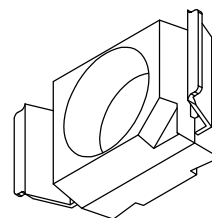
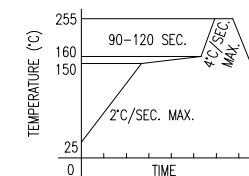




| ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ |             |     | $I_f=20\text{mA}$ |                 |                      |
|----------------------------------------------------------|-------------|-----|-------------------|-----------------|----------------------|
| PARAMETER                                                | MIN         | TYP | MAX               | UNITS           | TEST COND            |
| PEAK WAVELENGTH                                          |             | 525 |                   | nm              |                      |
| FORWARD VOLTAGE                                          |             | 4.0 | 4.5               | $V_f$           |                      |
| REVERSE VOLTAGE                                          | 5.0         |     |                   | $V_r$           | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY                                          |             | 275 |                   | mcd             | $I_f=20\text{mA}$    |
| VIEWING ANGLE                                            |             | 120 |                   | $2\theta$ theta |                      |
| EMITTED COLOR:                                           | GREEN       |     |                   |                 |                      |
| EPOXY LENS FINISH:                                       | WATER CLEAR |     |                   |                 |                      |

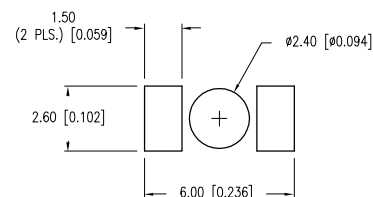
| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 150        | mA    |
| STEADY CURRENT                   | 30         | mA    |
| POWER DISSIPATION                | 100        | mW    |
| DERATE FROM 25°C                 | - 1.2      | mW/°C |
| OPERATING TEMP.                  | -40 TO +85 | °C    |
| STORAGE TEMP.                    | -40 TO +85 | °C    |

LEAD FREE REFLOW PROFILE  
10 SEC. MAX.



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

## RECOMMENDED SOLDER PAD LAYOUT



NOTES:

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

**A** CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 2 STANDARDS

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

\*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 UNCONTROLLED DOCUMENT



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2.8mm X 3.2mm SML /W REFLECTOR, 525nm LED, WATER CLEAR LENS. REVERSE GULL WING LEADS.

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

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|                 |              |
|-----------------|--------------|
| DATE: 02.25.04  | DRAWN BY: GB |
| PAGE: 1 OF 1    | CHKD BY: SS  |
| SCALE: N/A      | APRVD BY: KF |
| UNIT: mm [INCH] | (Pb)         |