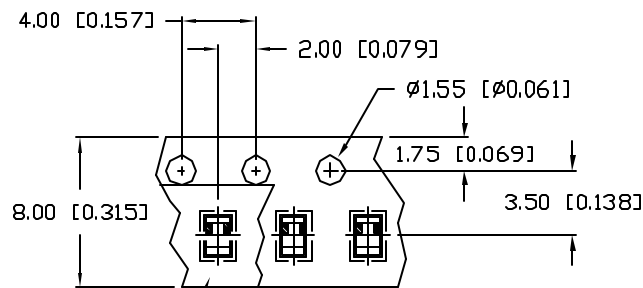
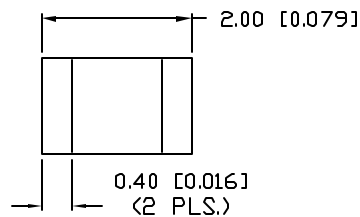
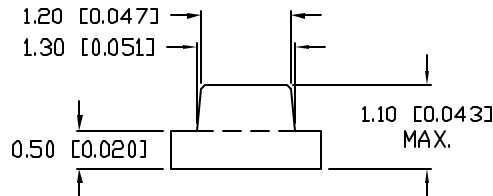
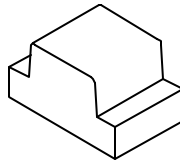
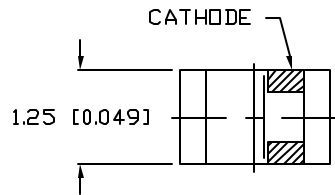
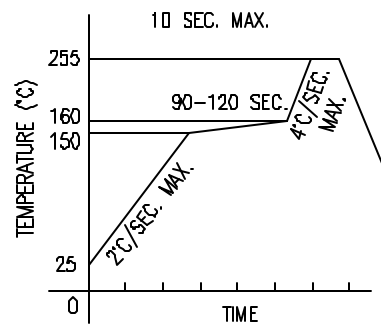


UNCONTROLLED DOCUMENT

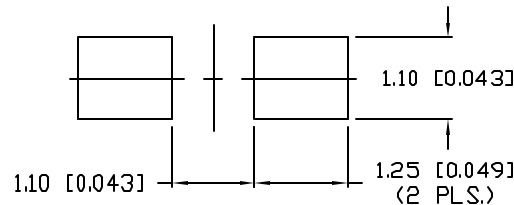


## B LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

## RECOMMENDED SOLDER PAD LAYOUT

PART NUMBER  
SML-LXF0805GD-TRREV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | E.C.N. #10967.                      | 3.14.03 |
| B    | E.C.N. #11148.                      | 2.14.05 |

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

| PARAMETER          | MIN            | TYP | MAX | UNITS     | TEST COND            |
|--------------------|----------------|-----|-----|-----------|----------------------|
| PEAK WAVELENGTH    |                | 565 |     | nm        |                      |
| FORWARD VOLTAGE    |                | 2.2 | 2.6 | $V_f$     |                      |
| REVERSE VOLTAGE    | 5.0            |     |     | $V_r$     | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |                | 12  |     | mod       | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                | 120 |     | $2\theta$ |                      |
| EMITTED COLOR:     | GREEN          |     |     |           |                      |
| EPOXY LENS FINISH: | GREEN DIFFUSED |     |     |           |                      |

## LIMITS OF SAFE OPERATION AT 25°C

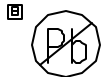
| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 150        | mA    |
| STEADY CURRENT        | 25         | mA    |
| POWER DISSIPATION     | 100        | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP. 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

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

## NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 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=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.

B

PART NUMBER

SML-LXF0805GD-TR

2.0mm x 1.25mm SURFACE MOUNT LED,  
565nm GREEN LED,  
GREEN DIFFUSED 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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PAGE: 1 OF 1

SCALE: N/A