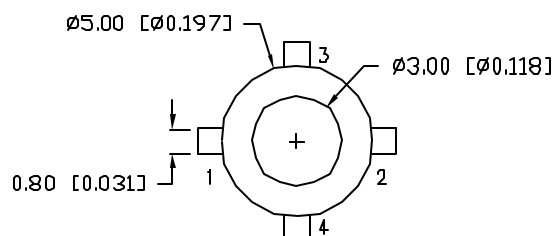
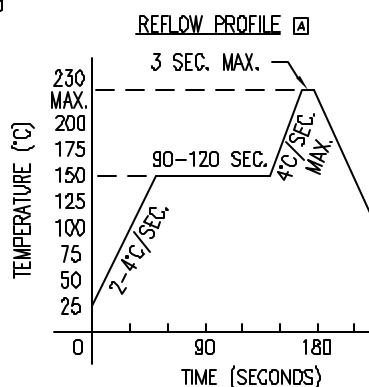
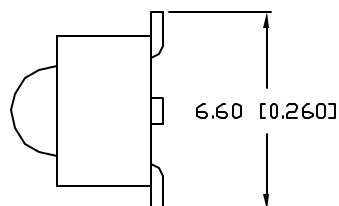
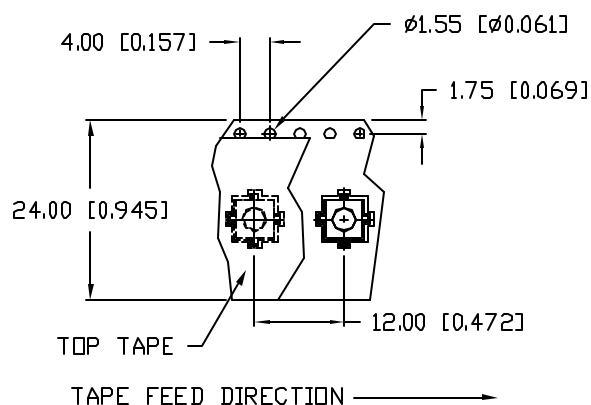
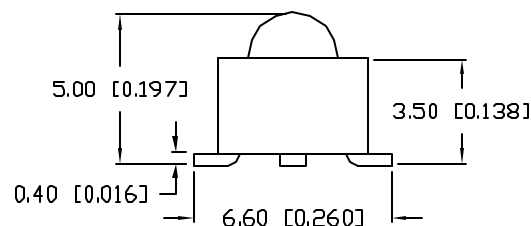


UNCONTROLLED DOCUMENT

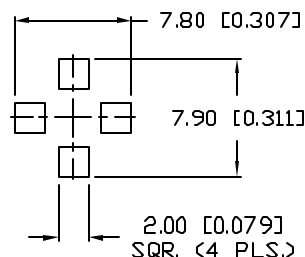


POLARITY

1  $\rightarrow$  2, 3, 4.



RECOMMENDED SOLDER PAD LAYOUT



| PART NUMBER       |                                     | REV.    |
|-------------------|-------------------------------------|---------|
| SML-LXL3055SRC-TR |                                     | A       |
| REV.              | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A                 | E.C.N. #10966                       | 3.11.03 |

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

| PARAMETER          | MIN         | TYP | MAX | UNITS    | TEST COND            |
|--------------------|-------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 660 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 1.7 | 2.4 | $V_f$    |                      |
| REVERSE VOLTAGE    | 4.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 250 |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 30  |     | 2x theta |                      |
| EMITTED COLOR:     | RED         |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |

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

NOTES:

- 500 PIECES PER REEL
- PIN#2 IS ORIENTED TOWARD THE TAPE SPROCKET HOLE.

UNCONTROLLED DOCUMENT

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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

REV.  
A

PART NUMBER  
SML-LXL3055SRC-TR

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.



290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

|           |             |              |              |
|-----------|-------------|--------------|--------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: 5.2.02 |
| CT        |             |              | PAGE: 1 OF 1 |
|           |             |              | SCALE: N/A   |

T-5mm (T-1 3/4) SURFACE MOUNT LED,  
4 LEADED, 3mm DOME, TAPE AND REEL,  
660nm SUPER RED CHIP, WATER CLEAR LENS.