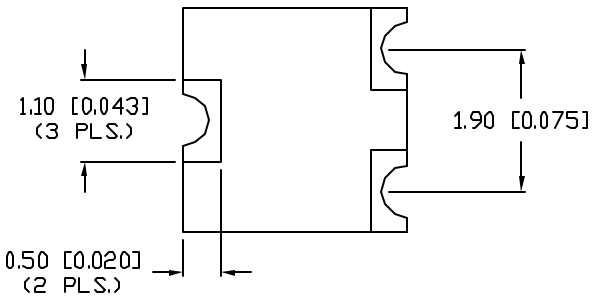
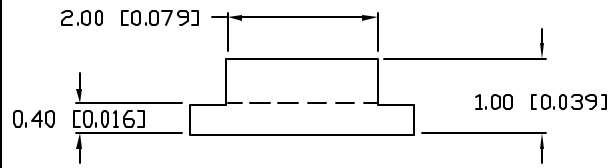
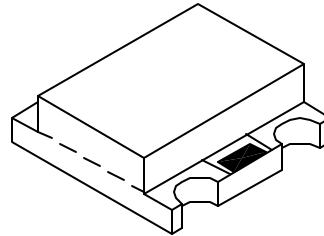
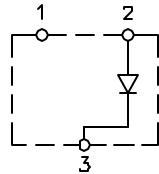
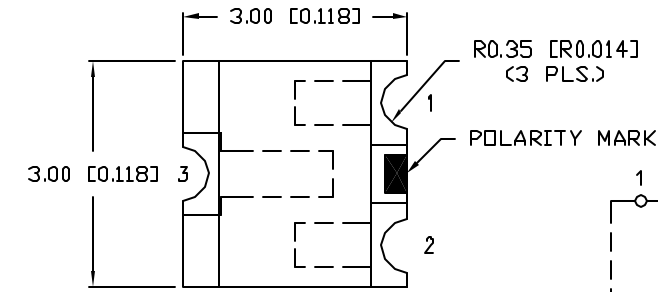


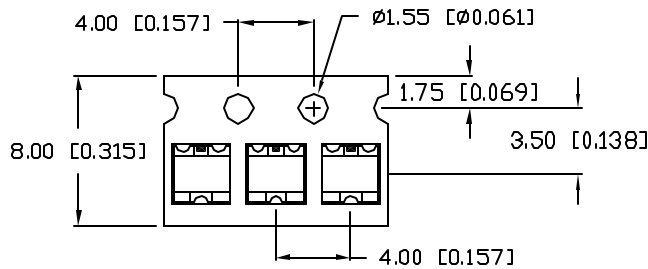
UNCONTROLLED DOCUMENT

PART NUMBER  
SML-LX15YC-TR

REV.  
D



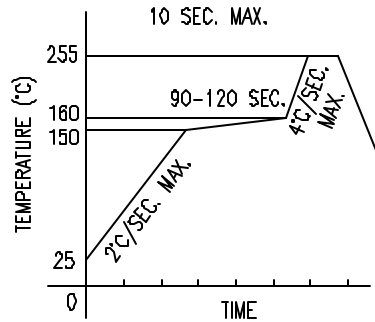
TAPE SPEC DETAIL



TAPE FEED DIRECTION →

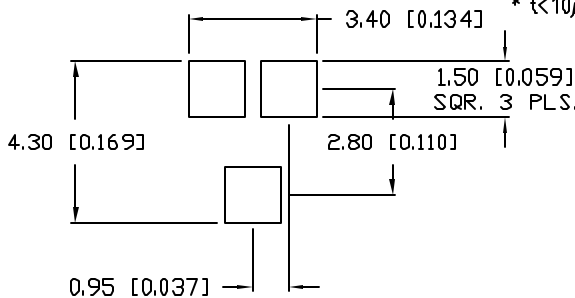
\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005), LEAD SIZE=±0.05 (0.002), LEAD LENGTH=±0.75 (±0.030), MIN.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED PAD LAYOUT



| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10967.                      | 3.14.03  |
| B    | E.C.N. #11010.                      | 7.3.03   |
| C    | E.C.N. #11148.                      | 11.30.05 |
| D    | E.C.N. #11361                       | 11.28.06 |

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

| PARAMETER          | MIN         | TYP | MAX | UNITS    | TEST COND            |
|--------------------|-------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 585 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.1 | 2.8 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 10  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 140 |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW      |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                      |

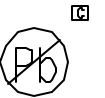
LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                | MAX        | UNITS |
|--------------------------|------------|-------|
| PEAK FORWARD CURRENT*    | 160        | mA    |
| STEADY CURRENT           | 30         | mA    |
| POWER DISSIPATION        | 100        | mW    |
| DERATE FROM 25°C         | -1.2       | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C    |

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

NOTES:

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



CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

REV.  
D

PART NUMBER  
SML-LX15YC-TR

SOT-23 REPLACEMENT, SURFACE MOUNT LED,  
585nm YELLOW 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.



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:<br>jc | CHECKED BY: | APPROVED BY: | DATE: 11.28.06 |
|                 |             |              | PAGE: 1 OF 1   |
|                 |             |              | SCALE: N/A     |