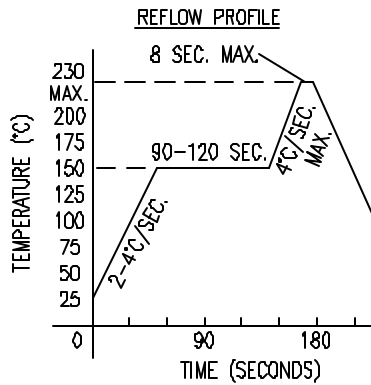
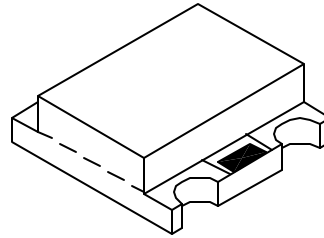
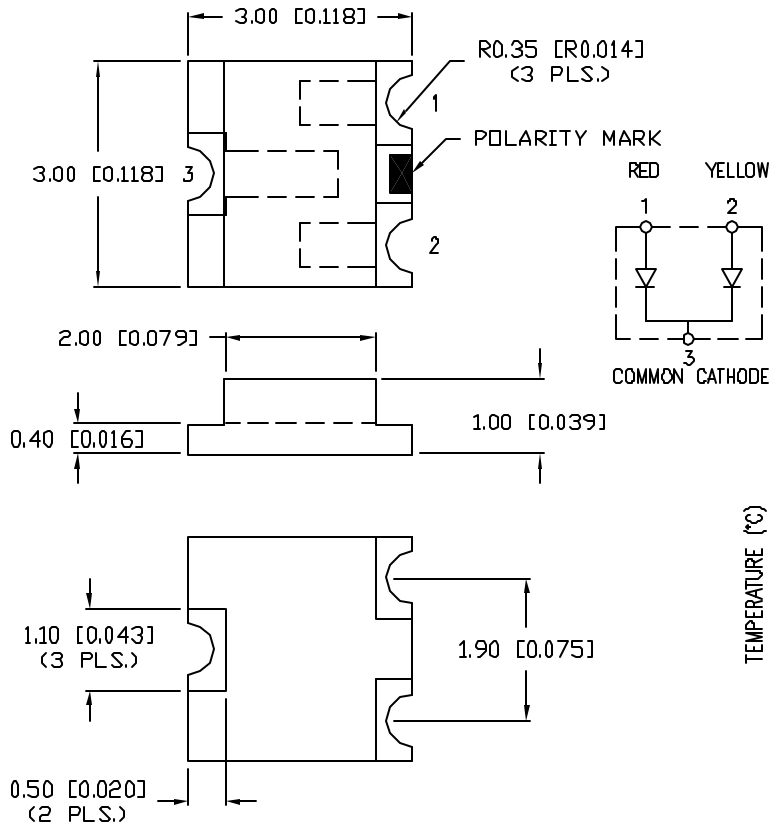
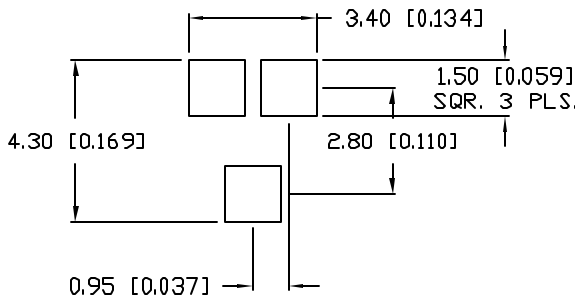


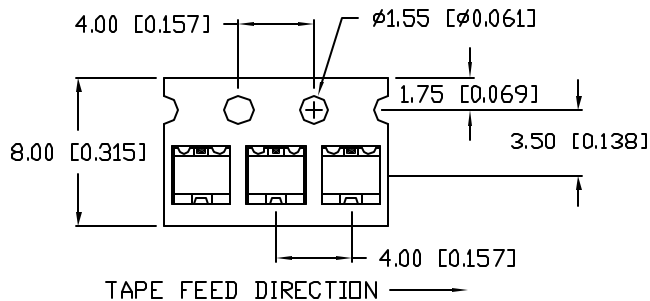
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RECOMMENDED PAD LAYOUT



TAPE SPEC DETAIL



*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

| | | |
|-------------------|-------------------------------------|---------|
| PART NUMBER | | REV. |
| SML-LX15IYC-RP-TR | | B |
| 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 |

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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------------|-------------|--------------|-----|------------|----------------------|
| PEAK WAVELENGTH | | 635 (RED) | | nm | |
| | | 585 (YELLOW) | | nm | |
| FORWARD VOLTAGE (R/Y) | | 2.0/2.1 | 2.5 | 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: | RED/YELLOW | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | COLORS | MAX | UNITS |
|--------------------------------|--------|------------|----------------------|
| PEAK FORWARD CURRENT* | | 160 | mA |
| STEADY CURRENT | (R/Y) | 30/30 | mA |
| POWER DISSIPATION | | 105 | mW |
| DERATE FROM 25°C | | -1.2 | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP. | | -30 TO +85 | $^\circ\text{C}$ |

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

NOTES:

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

PATENT PENDING

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

| | |
|--|-------------------|
| REV. | PART NUMBER |
| B | SML-LX15IYC-RP-TR |
| SOT-23 REPLACEMENT, SURFACE MOUNT LED, 635nm RED/585nm YELLOW BICOLOR LED, REVERSE POLARITY, 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: | CHECKED BY: | APPROVED BY: |
| SS/BC | | |
| DATE: | 4.26.01 | |
| PAGE: | 1 OF 1 | |
| SCALE: | N/A | |