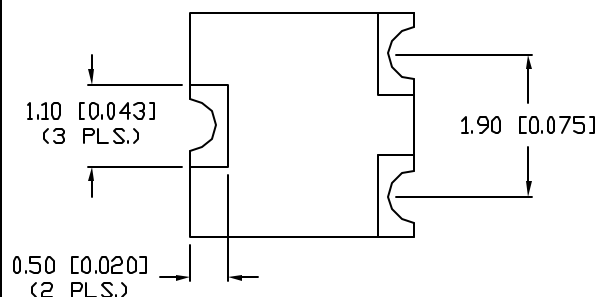
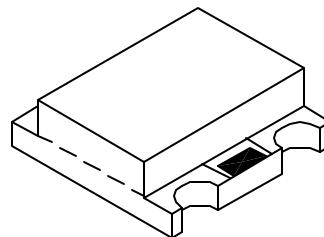
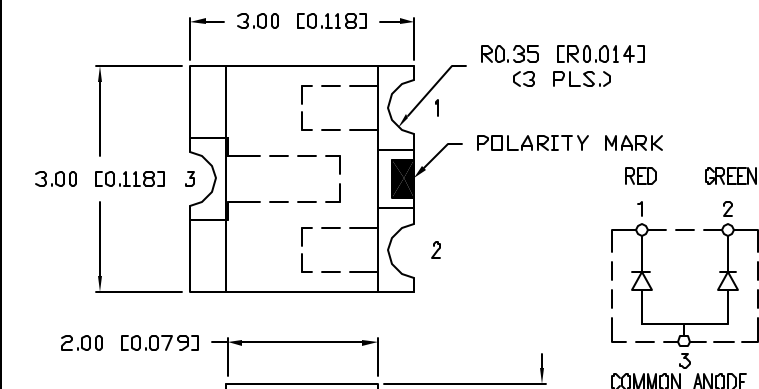
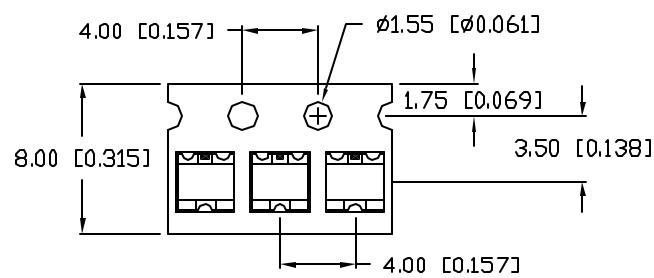


# UNCONTROLLED DOCUMENT



TAPE SPEC DETAIL



\*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).

| PART NUMBER    |                                     |          | REV. |
|----------------|-------------------------------------|----------|------|
| SML-LX15IGC-TR |                                     |          | D    |
| 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       |             | 635 (RED)   |     | nm             |                       |
|                       |             | 565 (GREEN) |     | nm             |                       |
| FORWARD VOLTAGE (R/G) |             | 2.0/2.1     | 2.8 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE       | 5.0         |             |     | V <sub>r</sub> | I <sub>r</sub> =100µA |
| AXIAL INTENSITY       |             | 10          |     | mcd            | I <sub>f</sub> =20mA  |
| VIEWING ANGLE         |             | 140         |     | 2x theta       |                       |
| EMITTED COLOR:        | RED/GREEN   |             |     |                |                       |
| EPOXY LENS FINISH:    | WATER CLEAR |             |     |                |                       |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER                | COLORS | MAX        | UNITS |
|--------------------------|--------|------------|-------|
| PEAK FORWARD CURRENT*    |        | 160        | mA    |
| STEADY CURRENT           | (R/G)  | 30/25      | mA    |
| POWER DISSIPATION        |        | 105        | 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

LEAD SIZE=±0.05 (0.002), LEAD LENGTH=±0.75 (±0.030), MIN.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

| REV.  | PART NUMBER    |
|---|----------------|
| D   | SML-LX15IGC-TR |
| SOT-23 REPLACEMENT, SURFACE MOUNT LED,<br>635nm RED/565nm GREEN BICOLOR LED,<br>WATER CLEAR LENS, TAPE AND REEL |                |

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

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