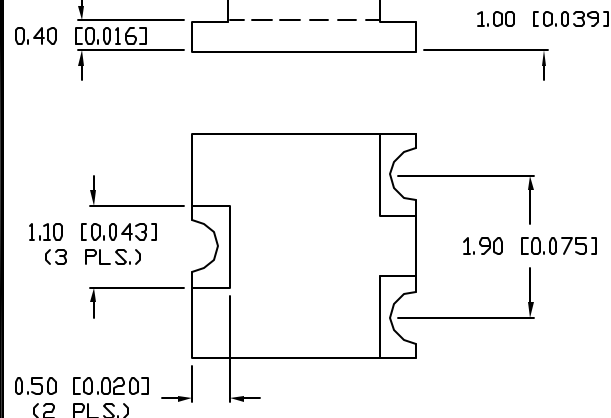
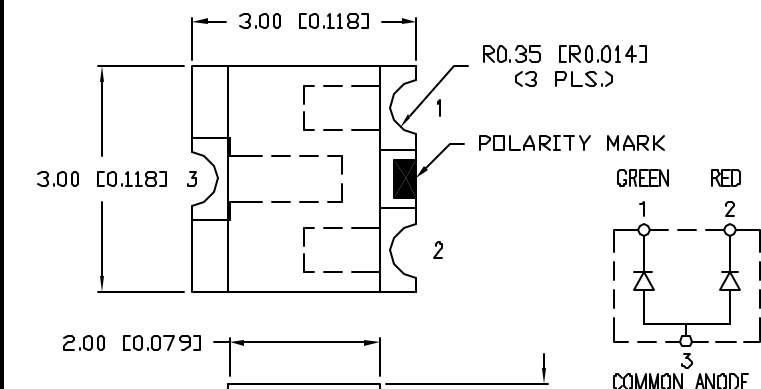
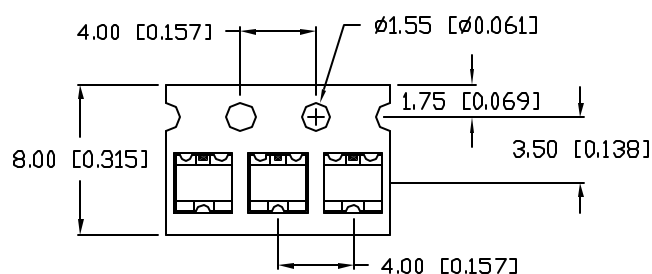


# UNCONTROLLED DOCUMENT

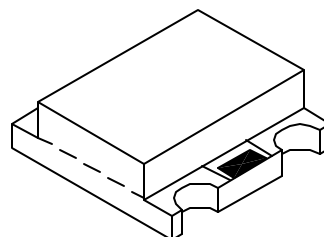


TAPE SPEC DETAIL

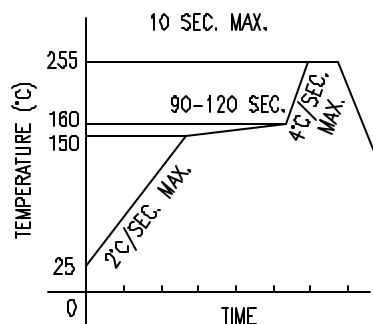


TAPE FEED DIRECTION

\*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).

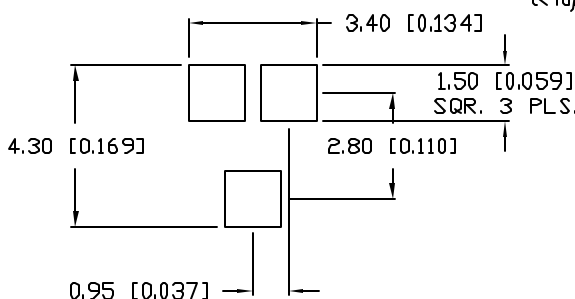


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED PAD LAYOUT



PART NUMBER  
SML-LX15GIC-TR

REV.  
E

| 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 |
| E    | E.C.N. #11501.                      | 05.02.08 |

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

| PARAMETER             | MIN         | TYP         | MAX     | UNITS          | TEST COND            |
|-----------------------|-------------|-------------|---------|----------------|----------------------|
| PEAK WAVELENGTH       |             | 565 (GREEN) |         | nm             |                      |
|                       |             | 635 (RED)   |         | nm             |                      |
| FORWARD VOLTAGE (G/R) |             | 2.2/2.0     | 2.6/2.5 | V <sub>f</sub> |                      |
| REVERSE VOLTAGE       | 5.0         |             |         | V <sub>r</sub> | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY       |             | 10          |         | mcad           | $I_f=20\text{mA}$    |
| VIEWING ANGLE         |             | 140         |         | 2x theta       |                      |
| EMITTED COLOR:        | GREEN/RED   |             |         |                |                      |
| EPOXY LENS FINISH:    | WATER CLEAR |             |         |                |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                | COLORS | MAX        | UNITS |
|--------------------------|--------|------------|-------|
| PEAK FORWARD CURRENT*    |        | 160        | mA    |
| STEADY CURRENT           | (G/R)  | 25/30      | 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 3 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.  
E

PART NUMBER  
SML-LX15GIC-TR

SOT-23 REPLACEMENT, SURFACE MOUNT LED,  
565nm GREEN/635nm RED BICOLOR 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.



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PAGE: 1 OF 1

SCALE: N/A