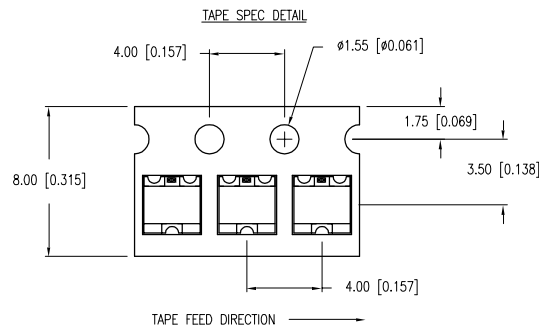
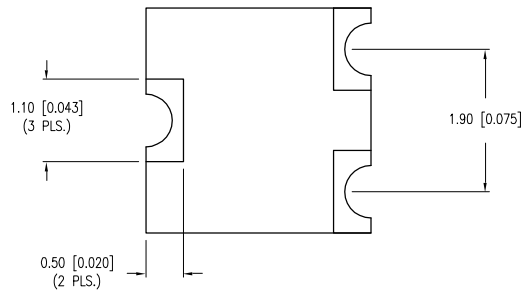
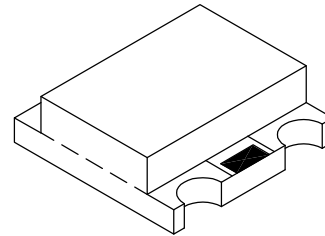
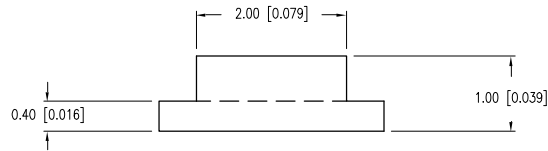
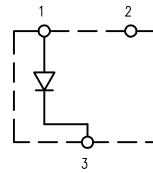
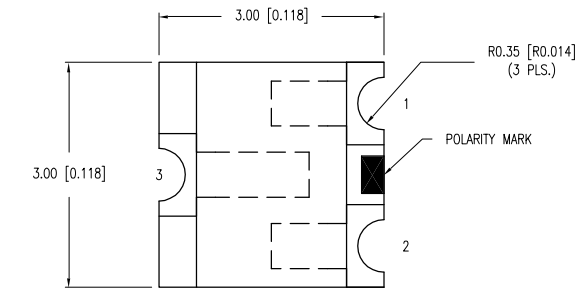
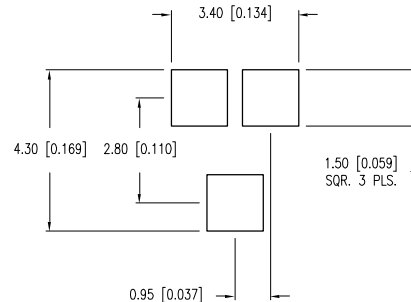




RECOMMENDED PAD LAYOUT



| PART NUMBER | SML-LX15GC-RP-TR                    | REV. | E |
|-------------|-------------------------------------|------|---|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS | REV. |   |
| 03.14.03    | E.C.N. #10967.                      | A    |   |
| 07.03.03    | E.C.N. #11010.                      | B    |   |
| 11.30.05    | E.C.N. #11148.                      | C    |   |
| 11.28.06    | E.C.N. #11361.                      | D    |   |
| 05.02.08    | E.C.N. #11501.                      | E    |   |

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

| PARAMETER          | MIN         | TYP | MAX | UNITS    | TEST COND              |
|--------------------|-------------|-----|-----|----------|------------------------|
| PEAK WAVELENGTH    |             | 565 |     | 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:     | GREEN       |     |     |          |                        |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                        |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 160        | mA                   |
| STEADY CURRENT                 | 25         | mA                   |
| POWER DISSIPATION              | 100        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING TEMP.                | -40 TO +85 | $^\circ\text{C}$     |
| STORAGE TEMP.                  | -40 TO +85 | $^\circ\text{C}$     |

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

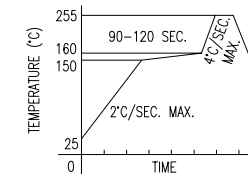
## NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS

LEAD FREE REFLOW PROFILE

10 SEC. MAX.

TOTAL TIME ABOVE  $220^\circ\text{C}$  IS 60 SECONDS MAX.

\*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 MAX.=+0.00-DECIMAL PRECISION

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SOT-23 REPLACEMENT, SML 565nm GREEN LED, REVERSE POLARITY, WATER CLEAR LENS, TAPE AND REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

## CONFIDENTIAL INFORMATION

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DATE: 02.21.01 DRAWN BY: JC

PAGE: 1 OF 1 CHKD BY: JD

SCALE: N/A APRVD BY: KF

UNIT: mm [INCH] (R) (C)