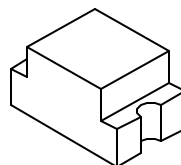
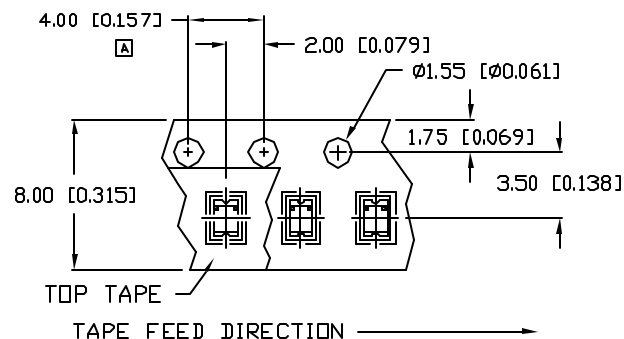
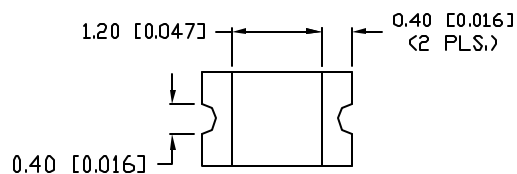
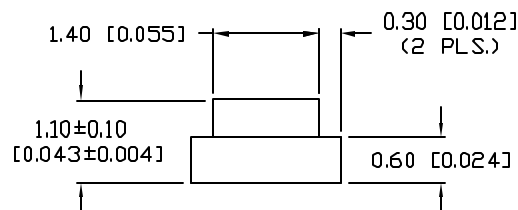
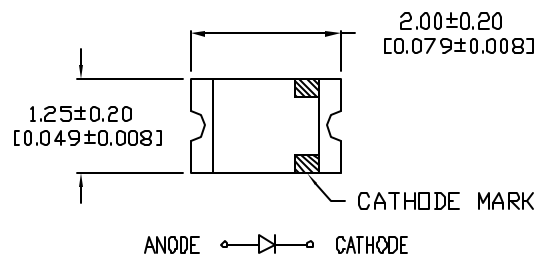
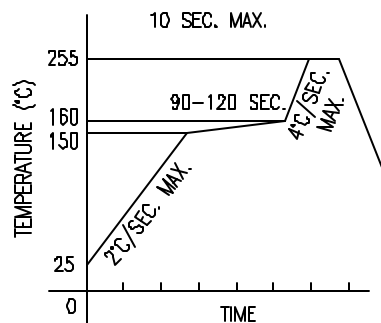


UNCONTROLLED DOCUMENT

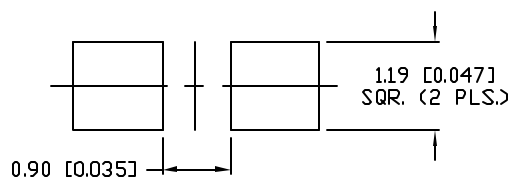


#### LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

#### RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER  
SML-LX0805SYC-TR

REV.  
E

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10644. & REDRAWN IN 3D.     | 7.18.00  |
| B    | E.C.N. #10862.                      | 5.9.02   |
| C    | E.C.N. #10932.                      | 11.25.02 |
| D    | E.C.N. #10967.                      | 3.14.03  |
| E    | E.C.N. #11148.                      | 8.2.06   |

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

| PARAMETER          | MIN         | TYP | MAX | UNITS    | TEST COND            |
|--------------------|-------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 590 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.1 | 2.8 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 60  |     | md       | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 140 |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW      |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                      |

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

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

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

#### NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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 MAX= +0.00 -DECIMAL PRECISION

REV. E PART NUMBER SML-LX0805SYC-TR

2.0mm X 1.25mm PCB SURFACE MOUNT,  
590nm SUPER YELLOW, 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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