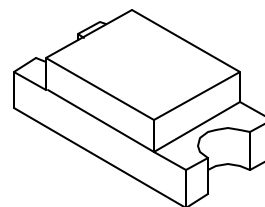
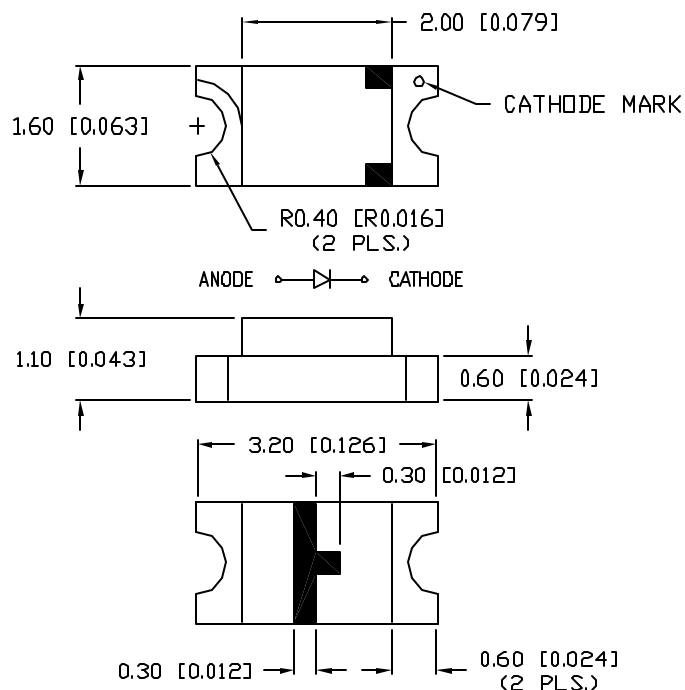
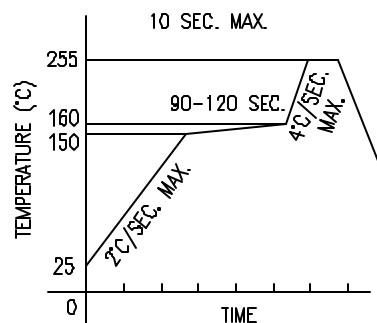


UNCONTROLLED DOCUMENT

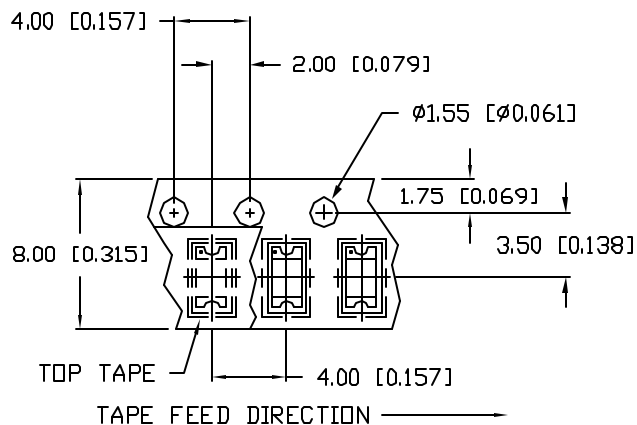
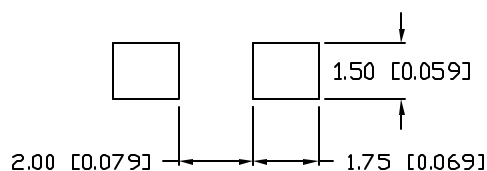


**LEAD FREE REFLOW PROFILE**



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

**RECOMMENDED SOLDER PAD LAYOUT**



\*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-LX1206YC-TR1 |                                     |         | B    |
| REV.             | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |      |
| A                | E.C.N. #10967.                      | 3.14.03 |      |
| B                | E.C.N. #11148.                      | 1.20.05 |      |

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

| PARAMETER          | MIN         | TYP | MAX | UNITS    | TEST COND            |
|--------------------|-------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 585 |     | nm       |                      |
| FORWARD VOLTAGE    |             | 2.1 | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 6   |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 160 |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW      |     |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |     |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 100        | mA    |
| STEADY CURRENT        | 25         | mA    |
| POWER DISSIPATION     | 65         | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -25 TO +85 | °C    |
| STORAGE TEMP.         | -30 TO +85 | °C    |

**NOTES:**

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. PARTS TO BE SUPPLIED IN BLACK, ANTI-STATIC CARRIER TAPE.

**CAUTION: MOISTURE SENSITIVE DEVICE**  
PER JEDEC LEVEL 4 STANDARDS

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REV. B PART NUMBER SML-LX1206YC-TR1

3.2mm x 1.6mm PCB SURFACE MOUNT LED,  
585nm YELLOW 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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