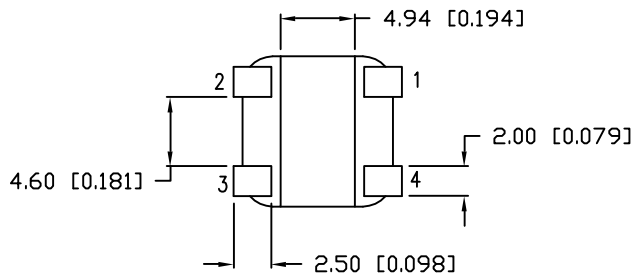
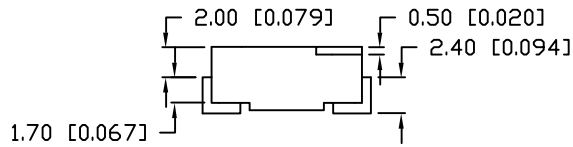
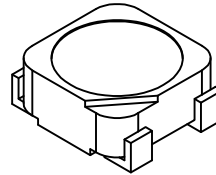
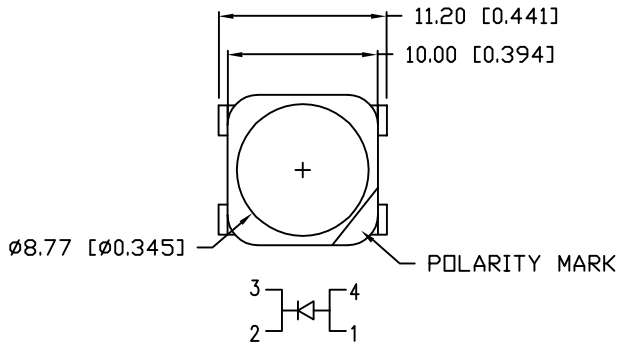
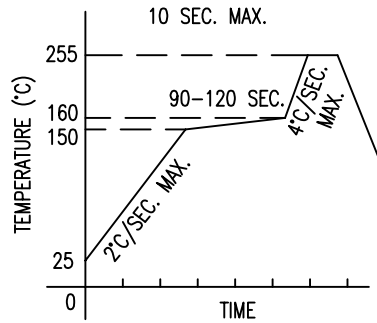


| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | E.C.N. #11440.                      | 9.07.07 |



LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=350\text{mA}$

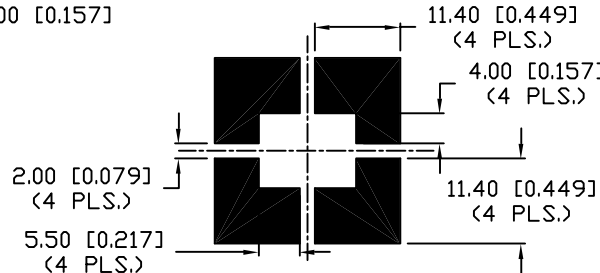
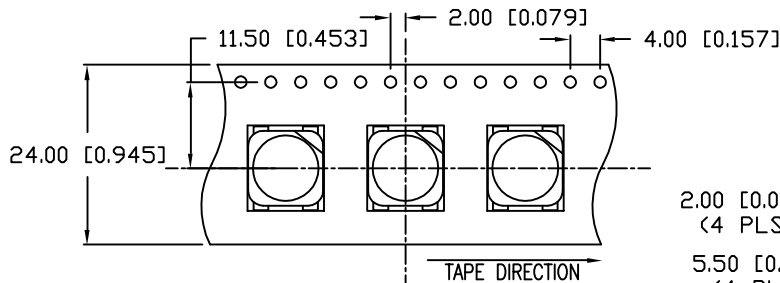
| PARAMETER          | MIN         | TYP   | MAX | UNITS    | TEST COND            |
|--------------------|-------------|-------|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 525   |     | nm       |                      |
| FORWARD VOLTAGE    |             | 3.5   | 4.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |       |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 10000 |     | mcd      | $I_f=350\text{mA}$   |
| LUMINOUS FLUX      |             | 20    |     | lm       | $I_f=350\text{mA}$   |
| VIEWING ANGLE      |             | 90    |     | 2x theta |                      |
| EMITTED COLOR:     | GREEN       |       |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |       |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 500        | mA    |
| STEADY CURRENT        | 350        | mA    |
| POWER DISSIPATION     | 1.2        | W     |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -40 TO +85 | °C    |
| STORAGE TEMP.         | -40 TO +85 | °C    |

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

RECOMMENDED SOLDER PAD LAYOUT



NOTES:

1. ANODE TOWARDS TAPE HOLE.



\*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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

| REV. | PART NUMBER        |
|------|--------------------|
| A    | SML-LX1110UPGC-ATR |

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PLCC-4 SMT LED, HIGH POWER, 525nm ULTRA PURE GREEN,  
WITH INTERNAL REFLECTIVE CAVITY.

**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.

|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>JD | CHECKED BY: | APPROVED BY: | DATE: 7.11.05 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |