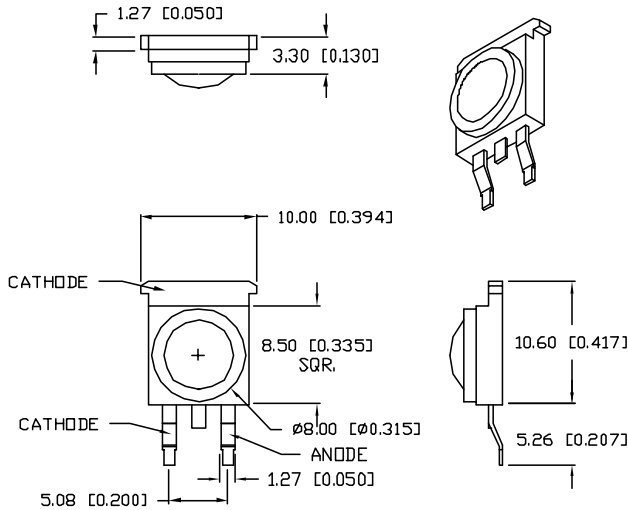


UNCONTROLLED DOCUMENT

PART NUMBER
SML-LX1610UWC

REV.



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

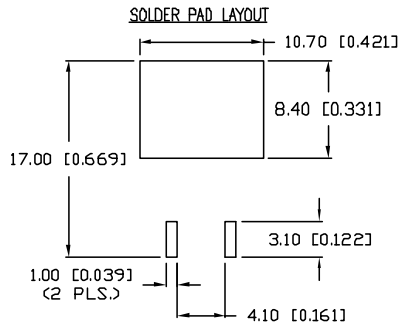
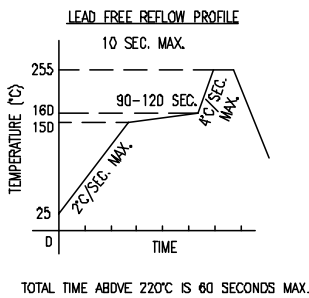
| PARAMETER | SYMBOL | MIN | TYP | MAX | UNITS | TEST COND |
|---------------------|--------|------|-----|------|-------------|---------------------|
| PEAK WAVELENGTH | | | | | nm | |
| FORWARD VOLTAGE | V_f | | 3.5 | 4.0 | V | $I_f=350\text{mA}$ |
| REVERSE VOLTAGE | V_r | 5 | | | V | $I_f=10\mu\text{A}$ |
| AXIAL INTENSITY(+1) | I_v | | 30 | | lm | $I_f=350\text{mA}$ |
| COLOR TEMP. | | 3000 | | 9000 | | $I_f=350\text{mA}$ |
| VIEWING ANGLE | | | 70 | | 2x theta | |
| EMITTED COLOR: | | | | | WHITE | |
| EPOXY LENS FINISH: | | | | | WATER CLEAR | |

*1. AXIAL INTENSITY TESTING CONDITION: 550nm WAVELENGTH.
*2. THE ICI STANDARD COLORIMETRIC SYSTEM.

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | SYMBOL | MAX | UNITS |
|-----------------------|-----------|------------|-------|
| PULSE FORWARD CURRENT | I_p | 500 | mA |
| STEADY CURRENT | I_f | 350 | mA |
| POWER DISSIPATION | P_D | 1.5 | W |
| OPERATING TEMP. | T_{OPR} | -20 TO +70 | °C |
| STORAGE TEMP. | T_{STG} | -40 TO +85 | °C |

*DUTY 1/10 PULSE WIDTH 10ms



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



NOTES:

1. 50 PCS. IN EACH TUBE.

*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

| | |
|------|------------------------------|
| REV. | PART NUMBER SML-LX1610UWC |
|------|------------------------------|

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10.60 x 10mm HIGH POWER LED, ULTRA WHITE.

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: JD | CHECKED BY: | APPROVED BY: | DATE: 8.31.06 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |