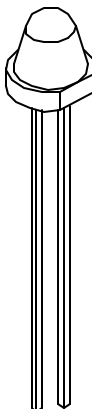
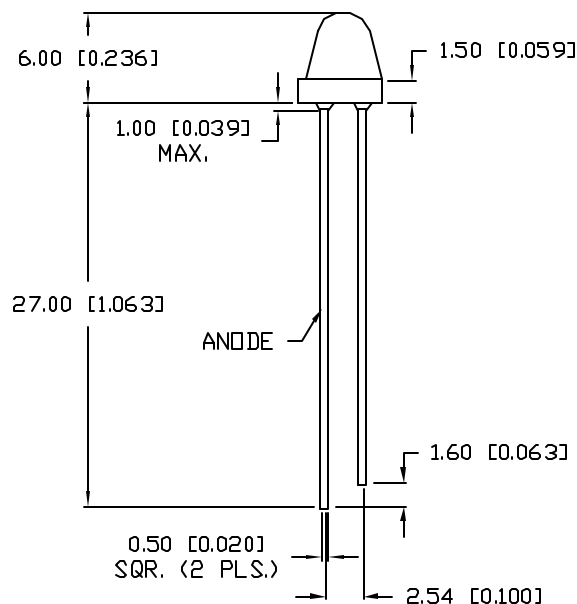


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CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

Ø5.00 [Ø0.197] Ø5.90 [Ø0.232]



|               |                                     |          |
|---------------|-------------------------------------|----------|
| PART NUMBER   |                                     | REV.     |
| SSL-LX5063UWC |                                     | A        |
| REV.          | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A             | E.C.N. #11148                       | 10.31.06 |

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

| PARAMETER           | SYMBOL      | MIN | TYP         | MAX | UNITS    | TEST COND           |
|---------------------|-------------|-----|-------------|-----|----------|---------------------|
| PEAK WAVELENGTH     |             |     | 550 (WHITE) |     | nm       |                     |
| FORWARD VOLTAGE     | $V_f$       |     | 3.6         | 4.0 | V        | $I_f=20\text{mA}$   |
| REVERSE VOLTAGE     | $V_r$       | 5   |             |     | V        | $I_r=10\mu\text{A}$ |
| AXIAL INTENSITY(*1) | $I_v$       |     | 600         |     | mcd      | $I_f=20\text{mA}$   |
| CHROMATICITY        | X           |     | 0.29        |     |          | $I_f=10\text{mA}$   |
| COORDINATES(*2)     | Y           |     | 0.30        |     |          |                     |
| VIEWING ANGLE       |             |     | 30          |     | 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  $25^\circ\text{C}$ 

| PARAMETER             | SYMBOL    | MAX         | UNITS            |
|-----------------------|-----------|-------------|------------------|
| PULSE FORWARD CURRENT | $I_p$     | 100*        | mA               |
| STEADY CURRENT        | $I_f$     | 30          | mA               |
| POWER DISSIPATION     | $P_D$     | 120         | mW               |
| OPERATING TEMP.       | $T_{OPR}$ | -30 TO +80  | $^\circ\text{C}$ |
| STORAGE TEMP.         | $T_{STG}$ | -40 TO +100 | $^\circ\text{C}$ |
| SOLDERING TEMP.       |           | +260        | $^\circ\text{C}$ |
| 2.0mm FROM BODY       |           |             | 3 SEC. MAX       |

\*DUTY 1/10 PULSE WIDTH 10ms



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

REV.

A

PART NUMBER

SSL-LX5063UWC

T-5mm (T-1 3/4) 550nm ULTRA WHITE LED,  
WATER CLEAR LENS.

## 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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SCALE: N/A

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