

UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX80113UWC

REV.

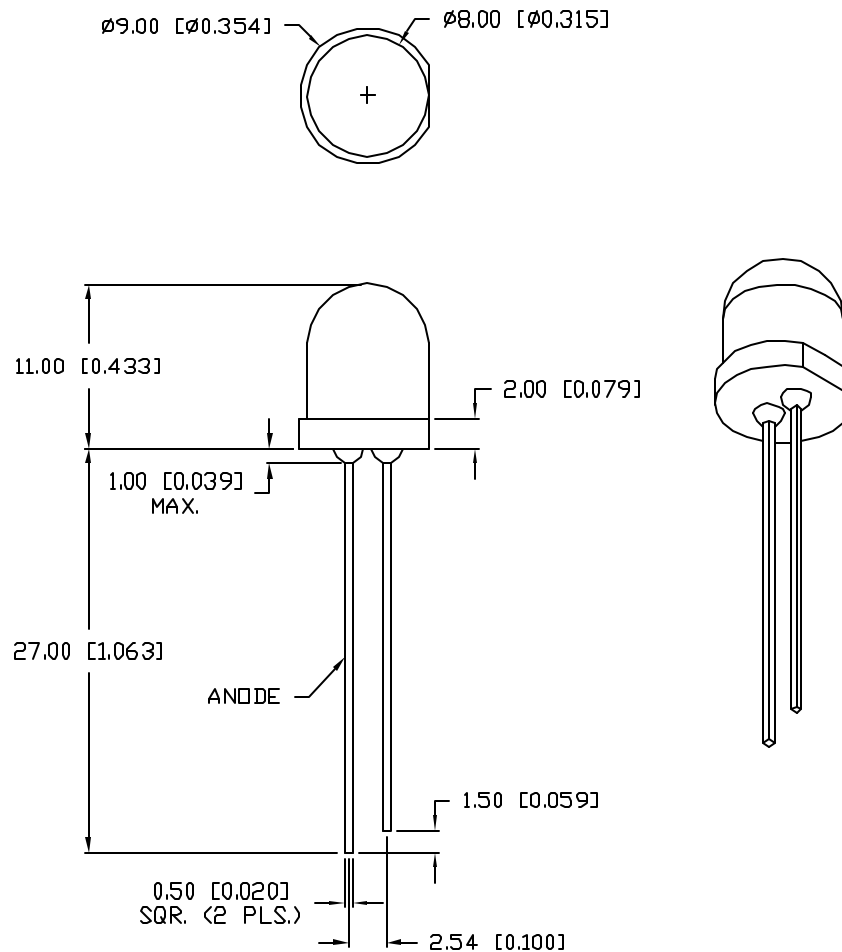
A

REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #11148

11.13.06

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

| PARAMETER           | SYMBOL | MIN | TYP  | MAX | UNITS    | TEST COND           |
|---------------------|--------|-----|------|-----|----------|---------------------|
| PEAK WAVELENGTH     |        |     | 550  |     | nm       |                     |
| FORWARD VOLTAGE     | $V_f$  |     | 3.5  | 4.0 | V        | $I_f=20\text{mA}$   |
| REVERSE VOLTAGE     | $V_r$  | 5.0 |      |     | V        | $I_r=10\mu\text{A}$ |
| AXIAL INTENSITY(*1) | $I_v$  | 300 | 550  |     | mcd      | $I_f=20\text{mA}$   |
| CHROMATICITY        | X      |     | 0.31 |     |          | $I_f=20\text{mA}$   |
| COORDINATES(*2)     | Y      |     | 0.32 |     |          |                     |
| VIEWING ANGLE       |        |     | 50   |     | 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                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 100        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 120        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                |            | 3 SEC. MAX           |

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

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



UNCONTROLLED DOCUMENT

\*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 MAX.=+0.00 -DECIMAL PRECISION

REV.

A

PART NUMBER

SSL-LX80113UWC

T-8mm 550nm ULTRA WHITE LED,  
WATER CLEAR LENS.

## CONFIDENTIAL INFORMATION

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

## 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.



290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 11.13.06

PAGE: 1 OF 1

SCALE: N/A