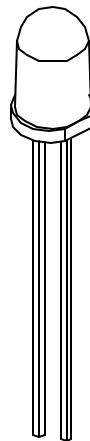
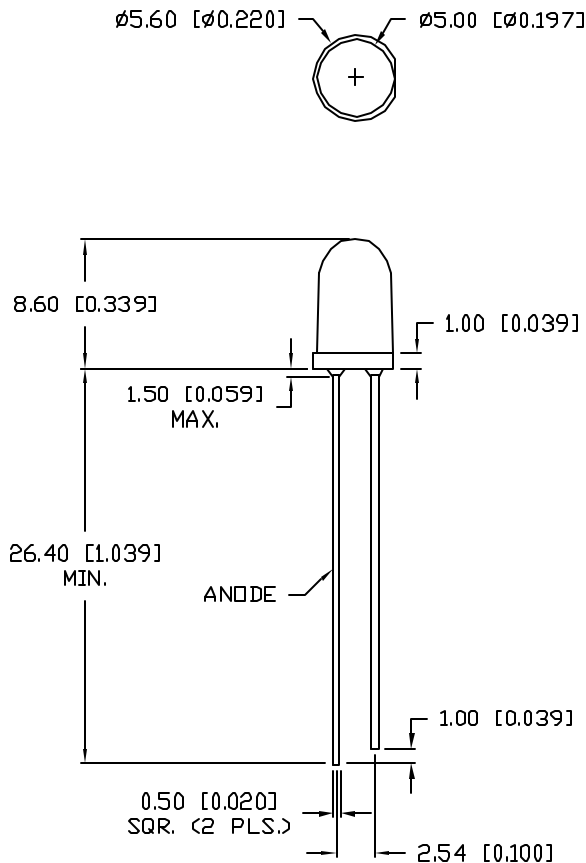


UNCONTROLLED DOCUMENT

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



PART NUMBER  
SSL-LX5093XUSBC

REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11148                       | 10.30.06 |

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

| PARAMETER          | MIN         | TYP  | MAX | UNITS    | TEST COND            |
|--------------------|-------------|------|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 470  |     | nm       |                      |
| FORWARD VOLTAGE    |             | 3.5  | 4.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |      |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 2500 |     | med      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |             | 10   |     | 2x theta |                      |
| EMITTED COLOR:     | BLUE        |      |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |      |     |          |                      |

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 100        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 98         | 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           |

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

\*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.=<sup>+DECIMAL PRECISION</sup>-0.00, MAX.=<sup>+0.00</sup>-DECIMAL PRECISION

REV.

A

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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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T-5mm (T-1 3/4) 470nm ULTRA SUPER BLUE LED,  
WATER CLEAR TAPERED LENS.

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 10.30.06

PAGE: 1 OF 1

SCALE: N/A