

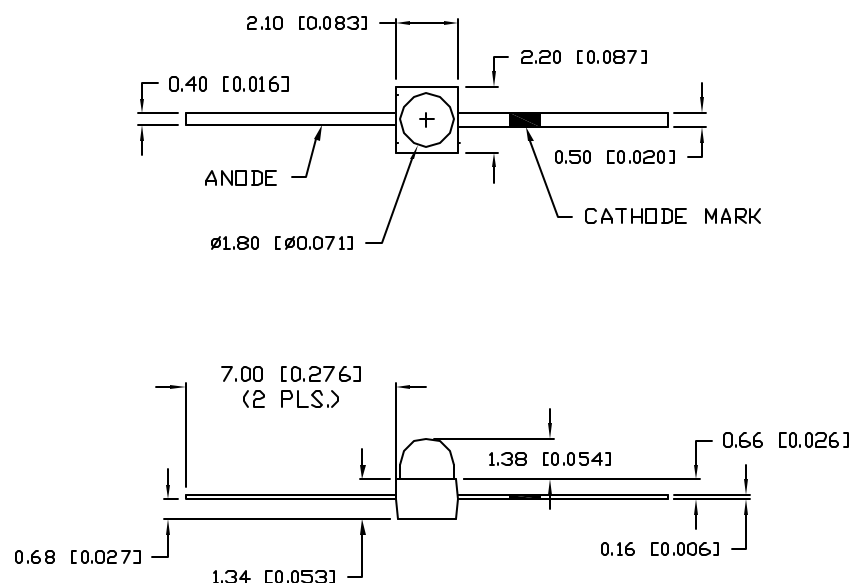
UNCONTROLLED DOCUMENT

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

PART NUMBER  
SSL-LXA227USBD

REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11148                       | 11.14.06 |

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           |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |               | 100 |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |               | 60  |     | 2x theta |                      |
| EMITTED COLOR:     | BLUE          |     |     |          |                      |
| EPOXY LENS FINISH: | BLUE DIFFUSED |     |     |          |                      |

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

| PARAMETER                        | MAX        | UNITS                  |
|----------------------------------|------------|------------------------|
| PEAK FORWARD CURRENT*            | 160        | mA                     |
| STEADY CURRENT                   | 30         | mA                     |
| POWER DISSIPATION                | 100        | 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), 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.  
A

PART NUMBER  
SSL-LXA227USBD

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

T-1.9mm AXIAL LEADED LED, 470nm ULTRA SUPER BLUE,  
BLUE DIFFUSED LENS, STRAIGHT LEADS.

|                 |             |              |                |
|-----------------|-------------|--------------|----------------|
| DRAWN BY:<br>JC | CHECKED BY: | APPROVED BY: | DATE: 11.14.06 |
|                 |             |              | PAGE: 1 OF 1   |
|                 |             |              | SCALE: N/A     |