

UNCONTROLLED DOCUMENT

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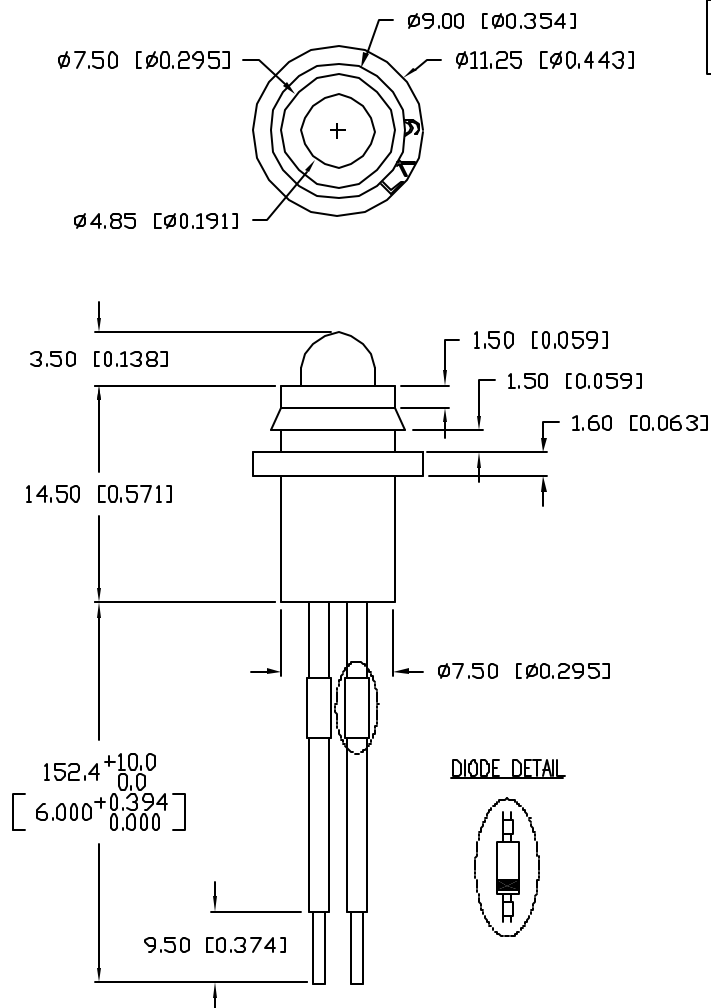
PART NUMBER

REV.

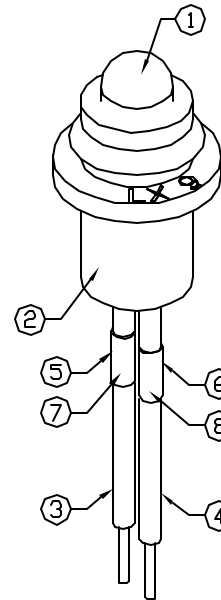
SSI-LXH9USBCD11993

PRELIMINARY IN P/N DIR

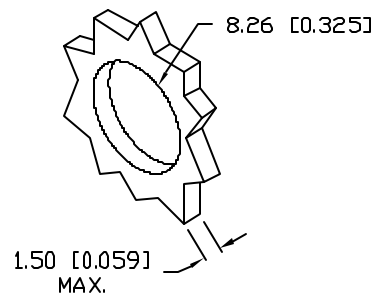
CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.



DIODE DETAIL



PANEL CUTOUT



| ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $V_f=120\text{ VAC}$ |             |      |     |                          |
|-----------------------------------------------------------------------------|-------------|------|-----|--------------------------|
| PARAMETER                                                                   | MIN         | TYP  | MAX | UNITS TEST COND          |
| PEAK WAVELENGTH                                                             |             | 470  |     | nm                       |
| FORWARD VOLTAGE                                                             |             | 120  |     | VAC                      |
| AXIAL INTENSITY                                                             |             | 1800 |     | mcd $V_f=120\text{ VAC}$ |
| VIEWING ANGLE                                                               |             | 30   |     | 2x theta                 |
| EMITTED COLOR:                                                              | BLUE        |      |     |                          |
| EPOXY LENS FINISH:                                                          | WATER CLEAR |      |     |                          |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD VOLTAGE           | 150        | VAC                  |
| STEADY CURRENT                 | 12         | mA                   |
| POWER DISSIPATION              | 150        | 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           |

## NOTES:

- SSL-LX509F3USBC/D1, BLUE LED.
- SSH-LXH9, BLACK RUBBER HOUSING.
- ANODE LEAD: LXP-WST24RDT0C, 24 AWG STRANDED, RED INSULATION, CUT 40mm LONG, STRIP 2mm BOTH ENDS. CUT 113mm LONG, STRIP 3mm & 9.5mm.
- CATHODE LEAD: LXP-WST24BLT0C, 24 AWG STRANDED, BLACK INSULATION, CUT 60mm LONG, STRIP 2mm BOTH ENDS. CUT 93mm LONG, STRIP 3mm & 9.5mm.
- LXP-RES 10K 2W, : 10K 2 WATT RESISTOR. CUT TO 22mm END TO END.
- LXP-DIODE-1N4004: 1N4004 RECTIFIER DIODE. CUT TO 25mm END TO END.
- LXP-HEATSHRINK-6, 3/16", 35mm BLACK HEATSHRINK.
- LXP-HEATSHRINK-4, 1/8", 40mm BLACK HEATSHRINK.

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\*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.

PART NUMBER

SSI-LXH9USBCD11993

T-5mm 470nm InGaN/SiC BLUE LED PANEL INDICATOR,  
WATER CLEAR LENS, 6" WIRE LEADS, 120VAC.

## 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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DATE: 7.3.03

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SCALE: N/A