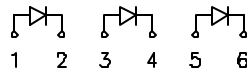
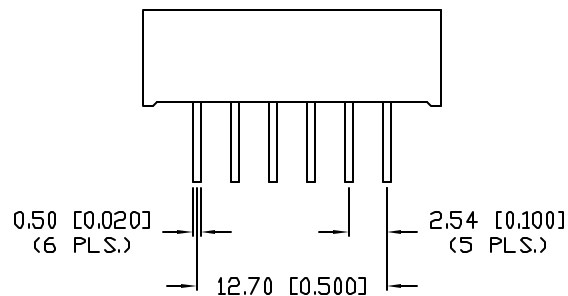
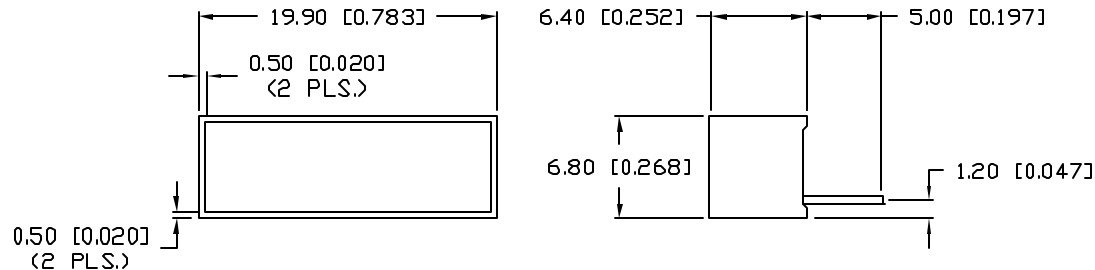


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CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.



|               |                                     |         |
|---------------|-------------------------------------|---------|
| PART NUMBER   |                                     | REV.    |
| SSB-LX620USBD |                                     | A       |
| REV.          | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
| A             | E.C.N. #11148.                      | 1.21.05 |

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                  |     | 4.0 | 4.5 | V <sub>f</sub> |                      |
| REVERSE VOLTAGE                  | 5.0 |     |     | V <sub>r</sub> | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY                  |     | 75  |     | mcd            | $I_f=20\text{mA}$    |
| VIEWING ANGLE                    |     | 160 |     | 2x theta       |                      |
| EMITTED COLOR: BLUE              |     |     |     |                |                      |
| EPOXY LENS FINISH: BLUE DIFFUSED |     |     |     |                |                      |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 150        | mA         |
| STEADY CURRENT           | 30         | mA         |
| POWER DISSIPATION        | 105        | mW         |
| DERATE FROM 25°C         | -1.6       | mW/°C      |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2.0mm FROM BODY          |            | 3 SEC. MAX |

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

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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.

A

PART NUMBER

SSB-LX620USBD

6mm x 20mm, 3 CHIP LIGHT BAR,  
470nm BLUE, BLUE DIFFUSED, LEAD FREE.

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: 1.23.03

PAGE: 1 OF 1

SCALE: N/A