

SCALE: N/A

UNCONTROLLED DOCUMENT

SC:2

PART NUMBER

SSA-LXB1015USBW

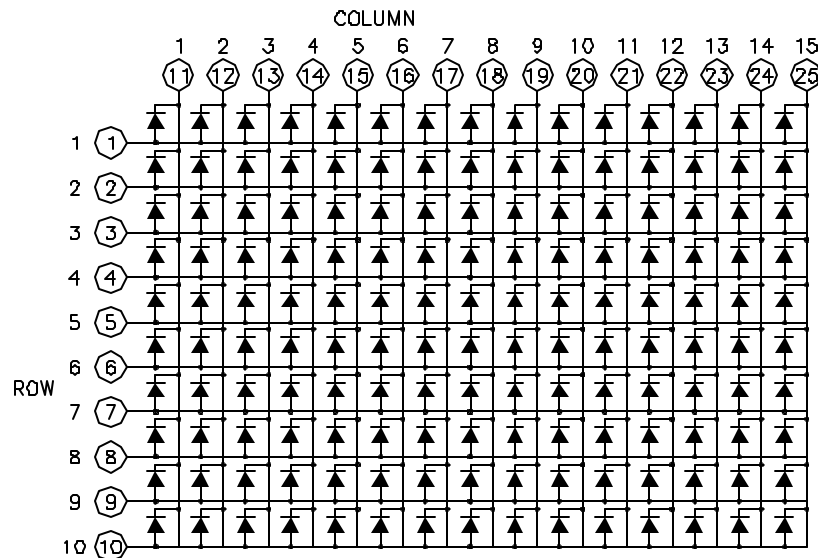
REV.

PRELIMINARY IN P/N DIR

|    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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    |                      | 50  |     | mcd             | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                      | 160 |     | $2\times$ theta |                      |
| EMITTED COLOR:     | BLUE                 |     |     |                 |                      |
| EPOXY LENS FINISH: | MILKY WHITE DIFFUSED |     |     |                 |                      |
| FACE COLOR:        | BLACK                |     |     |                 |                      |

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

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

NOTES:

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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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 -0.00 MAX= +0.00 -DECIMAL PRECISION

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CUSTOM 150 LED DISPLAY, BLACK FACE, WHITE SEGMENTS,  
470nm BLUE LED.

## 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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JD

PAGE: 1 OF 1

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