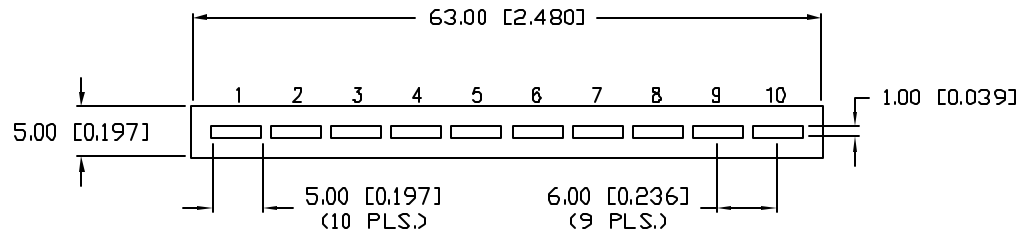


UNCONTROLLED DOCUMENT

PART NUMBER  
SSA-LXB103YD

REV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE   |
|------|-------------------------------------|--------|
| A    | E.C.N. #10BRDR. & REDRAWN.          | 6.5.01 |



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

| PARAMETER          | MIN             | TYP | MAX | UNITS    | TEST COND            |
|--------------------|-----------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |                 | 585 |     | nm       |                      |
| FORWARD VOLTAGE    |                 | 2.3 | 3.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0             |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |                 | 10  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                 | 80  |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW          |     |     |          |                      |
| EPOXY LENS FINISH: | YELLOW DIFFUSED |     |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C PER DIE

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 150        | mA         |
| STEADY CURRENT           | 30         | mA         |
| POWER DISSIPATION        | 110        | mW         |
| DERATE FROM 25°C         | -1.2       | mW/°C      |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2.0mm FROM BODY          |            | 3 SEC. MAX |

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

NOTES:

- SSH-LXH103 HOLDER, BLACK.
- SSL-LX1583YD, LED. (10 PLS.)

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

|           |                             |
|-----------|-----------------------------|
| REV.<br>A | PART NUMBER<br>SSA-LXB103YD |
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1mm x 5mm 10 LED RECTANGULAR ARRAY,  
585nm YELLOW LEDS, YELLOW DIFFUSED LENS.

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.

|                 |             |              |              |
|-----------------|-------------|--------------|--------------|
| DRAWN BY:<br>GT | CHECKED BY: | APPROVED BY: | DATE: 8.9.93 |
|                 |             |              | PAGE: 1 OF 1 |
|                 |             |              | SCALE: N/A   |