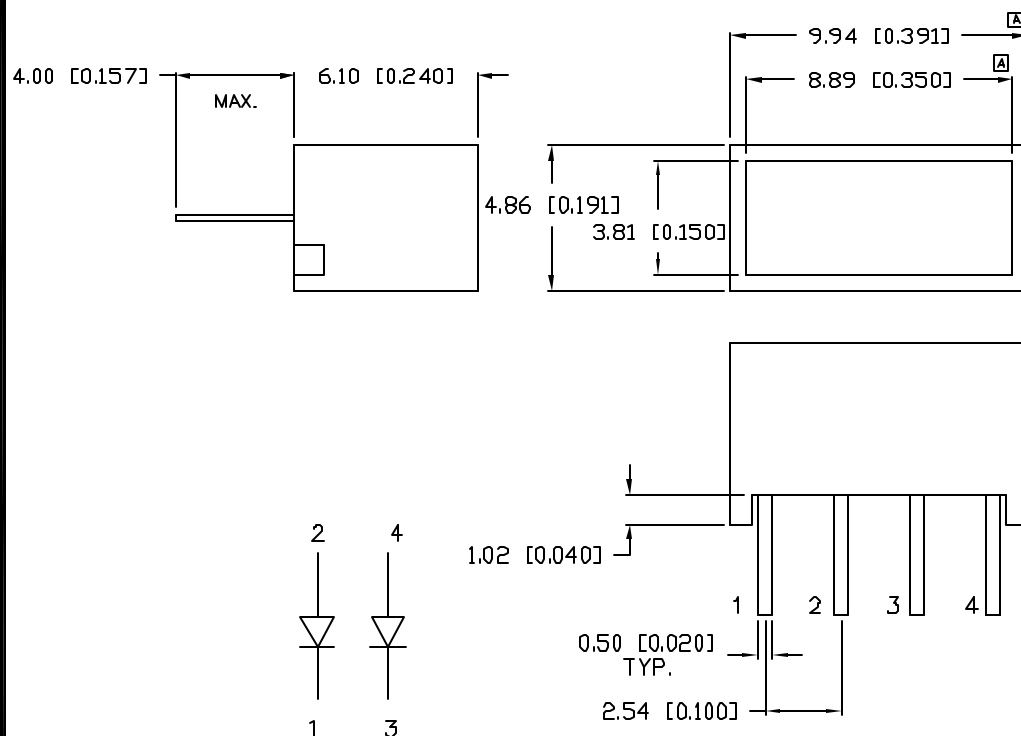


UNCONTROLLED DOCUMENT

PART NUMBER  
SSB-LXA100SRDREV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | E.C.N. #10241.                      | 9-27-96 |

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

| PARAMETER          | MIN          | TYP       | MAX | UNITS    | TEST COND            |
|--------------------|--------------|-----------|-----|----------|----------------------|
| PEAK WAVELENGTH    |              | 660 (RED) |     | nm       |                      |
| FORWARD VOLTAGE    |              | 1.7       | 2.2 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0          |           |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |              | 40        |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |              | 160       |     | 2x theta |                      |
| EMITTED COLOR:     | RED          |           |     |          |                      |
| EPOXY LENS FINISH: | RED DIFFUSED |           |     |          |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 100        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -0.5       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -20 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +230       | $^\circ\text{C}$     |
| 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.  
APART NUMBER  
SSB-LXA100SRD

8.89mm x 3.81 LIGHT BAR, RED DIFFUSED.

## 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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| CK        |             |              | PAGE: 1 OF 1  |
|           |             |              | SCALE: N/A    |



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