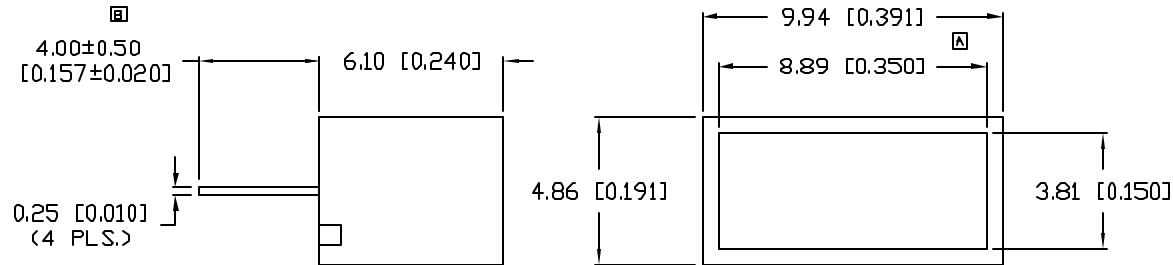


PART NUMBER  
SSB-LX2300ID

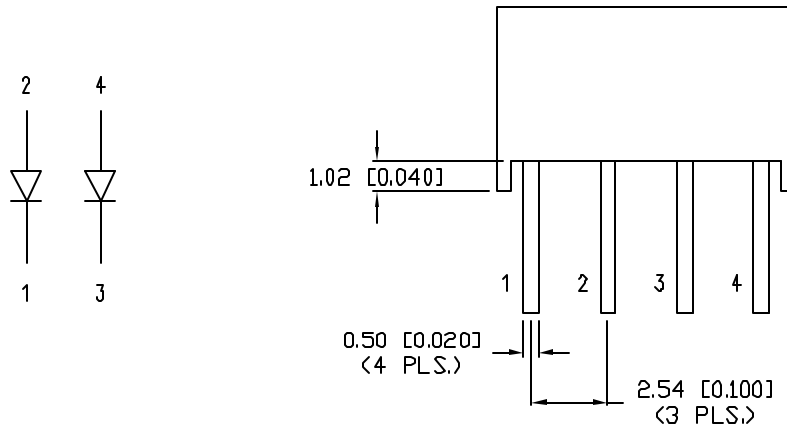
REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS  | DATE    |
|------|--------------------------------------|---------|
| A    | E.C.N. #10241./                      | 9-27-96 |
| B    | E.C.N. #10BRDR./REDRAWN & ADDED TOL. | 8-31-98 |



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

| PARAMETER          | MIN          | TYP       | MAX | UNITS    | TEST COND            |
|--------------------|--------------|-----------|-----|----------|----------------------|
| PEAK WAVELENGTH    |              | 635 (RED) |     | nm       |                      |
| FORWARD VOLTAGE    |              | 2.0       | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0          |           |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |              | 25        |     | 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 CHIP

| PARAMETER                        | MAX          | UNITS                  |
|----------------------------------|--------------|------------------------|
| PEAK FORWARD CURRENT*            | 150          | mA                     |
| STEADY CURRENT                   | 30           | mA                     |
| POWER DISSIPATION                | 105          | 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             |

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

\*UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010"$ )

REV.  
B

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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.

**LUMEX**  
INCORPORATED

290 E. HELLEN ROAD  
PALATINE, ILLINOIS 60067  
PHONE: 1-847-359-2790  
WEB: [HTTP://WWW.LUMEX.COM](http://WWW.LUMEX.COM)

|           |             |              |              |
|-----------|-------------|--------------|--------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: 4-8-93 |
| ck/du     |             |              | PAGE: 1 OF 1 |
|           |             |              | SCALE: N/A   |

8.89mm x 3.81mm VIEWING AREA LIGHT BAR,  
2- 635nm RED LEDS, RED DIFFUSED EPOXY.