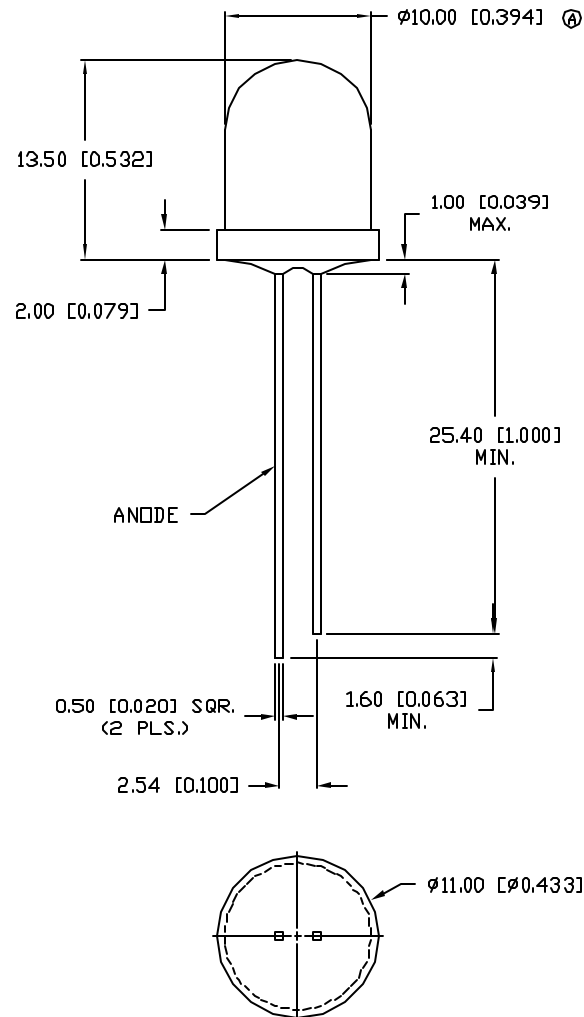


| DATE    | REVISIONS                             | REV |
|---------|---------------------------------------|-----|
| 3-10-98 | E.C.N. #10BRDR. & #10421. & REDRAWN./ | A   |

| DRAWING NUMBER    | REV |
|-------------------|-----|
| SSL-LX100133SBD/A | A   |



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

| PARAMETER          | MIN           | TYP        | MAX | UNITS    | TEST COND              |
|--------------------|---------------|------------|-----|----------|------------------------|
| PEAK WAVELENGTH    |               | 430 (BLUE) |     | nm       |                        |
| FORWARD VOLTAGE    |               | 4.5        | 5.5 | $V_f$    |                        |
| REVERSE VOLTAGE    | 5.0           |            |     | $V_r$    | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY    |               | 25         |     | mcd      | $I_f = 20\text{mA}$    |
| VIEWING ANGLE      |               | 60         |     | 2x theta |                        |
| EMITTED COLOR:     | BLUE          |            |     |          |                        |
| EPOXY LENS FINISH: | BLUE DIFFUSED |            |     |          |                        |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 200        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -2.25      | 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           |

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

## 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.

(A)

**LUMEX**  
INCORPORATED

290 E. HELLEN ROAD  
PALATINE, ILLINOIS 60067  
(847) 359-2790

CONFIDENTIAL INFORMATION  
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INCORPORATED. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INCORPORATED, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

|                |      |        |       |
|----------------|------|--------|-------|
| DATE: 10-15-96 | DWN: | CHK'D: | APPD: |
| SCALE: N/A     |      |        |       |

T-3 1/8mm (T-10) LED, SUPER BLUE,  
BLUE DIFFUSED LENS.

|             |                                     |          |
|-------------|-------------------------------------|----------|
| PAGE 1 OF 1 | DRAWING NUMBER<br>SSL-LX100133SBD/A | REV<br>A |
|-------------|-------------------------------------|----------|

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

DU

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumex:

[SSL-LX100133SBD/A](#)