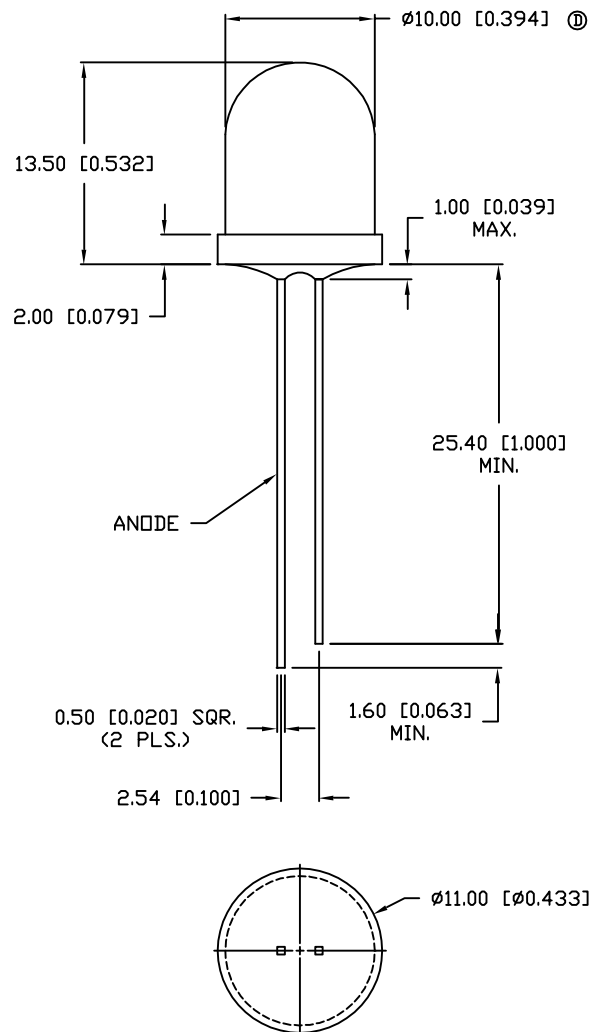


| DATE | REVISIONS | REV |
|---------|--|-----|
| 8-5-93 | REDRAWN. | A |
| 9-9-94 | REVISED INTENSITY SPECIFICATIONS. | B |
| 8-31-95 | UPDATED SAFE OPER. SPEC., ADDED TYP TO /E INTEN. | C |
| 3-10-98 | E.C.N. #10BRDR. & #10421. & REDRAWN./ | D |



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

| DRAWING NUMBER | | | | | REV |
|--|-------------|-----------|-----|----------|----------------------|
| SSL-LX100133SRC(/B-/E) | | | | | D |
| 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 | 4.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY/B | 500 | 1000 | | mcd | $I_f=20\text{mA}$ |
| /C | 1000 | 1600 | | mcd | $I_f=20\text{mA}$ |
| /D | 1600 | 2000 | | mcd | $I_f=20\text{mA}$ |
| © /E | 2000 | 2500 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 30 | | 2x theta | |
| EMITTED COLOR: | RED | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

| LIMITS OF SAFE OPERATION AT 25°C | | |
|--|------------|----------------------|
| PARAMETER | MAX | UNITS |
| PEAK FORWARD CURRENT* | 150 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 105 | mW |
| DERATE FROM 25°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 |

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

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.

| | | | |
|---|--|---|----------|
| | | 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: 10-15-91 | DWN: | CHK'D: | APPD: |
| SCALE: N/A | | | |
| T-3 1/8mm (T-10) LED, SUPER RED, WATER CLEAR LENS. | | | |
| PAGE 1 OF 1 | DRAWING NUMBER SSL-LX100133SRC(/B-/E) | | REV D |

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