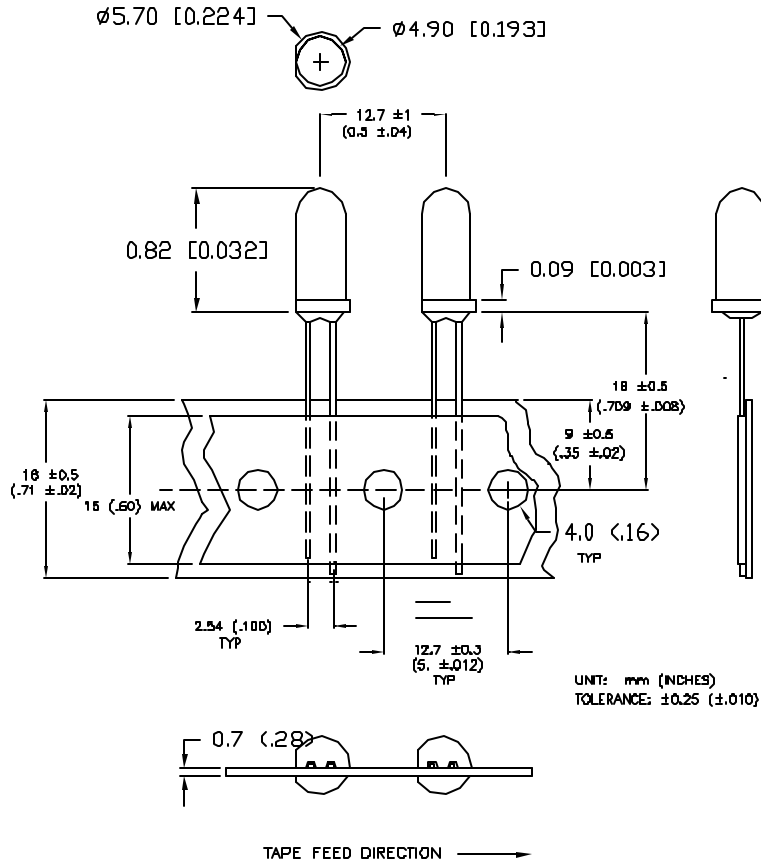


UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX501331D-TR

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10214.                      | 6.27.96  |
| B    | E.C.N. #11148.                      | 02.05.07 |



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       | 2.8 | $V_f$    |                        |
| REVERSE VOLTAGE   | 5.0 |           |     | $V_r$    | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY   |     | 40        |     | md       | $I_f = 20\text{mA}$    |
| VIEWING ANGLE     |     | 60        |     | 2x theta |                        |
| EMITTED COLOR     | RED |           |     |          |                        |
| EPOXY LENS FINISH | RED | DIFFUSED  |     |          |                        |

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

| 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 | $^\circ\text{C}$     |
| LEAD SOLDERING TEMP            | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                |            | 3 SEC. MAX           |

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



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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 MAX= +0.00 -DECIMAL PRECISION

REV. B PART NUMBER SSL-LX501331D-TR

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T-5mm (T-1 3/4) LED, RED DIFFUSED,  
 TAPE AND REEL.

**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: JC CHECKED BY: APPROVED BY: DATE: 4.4.96  
 PAGE: 1 OF 1  
 SCALE: N/A