

UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX255831DREV.  
C

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | ADD CHAMFER TO SHOULDER.            | 3.20.92 |
| B    | UPDATED SPEC.                       | 3.9.95  |
| C    | E.C.N. #10BRDR. & REDRAWN IN 3D.    | 7.2.01  |

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

| PARAMETER          | MIN          | TYP | MAX | UNITS      | TEST COND            |
|--------------------|--------------|-----|-----|------------|----------------------|
| PEAK WAVELENGTH    |              | 635 |     | nm         |                      |
| FORWARD VOLTAGE    |              | 2.0 | 2.5 | $V_f$      |                      |
| REVERSE VOLTAGE    | 5.0          |     |     | $V_r$      | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |              | 15  |     | med        | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |              | 110 |     | $2x$ 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 | $^\circ\text{C}$     |
| 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 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±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.  
CPART NUMBER  
SSL-LX255831D2.5mm x 5mm RECTANGULAR LED WITH SHOULDER,  
635nm RED LED, RED DIFFUSED LENS.

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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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SCALE: N/A