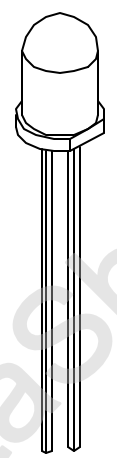
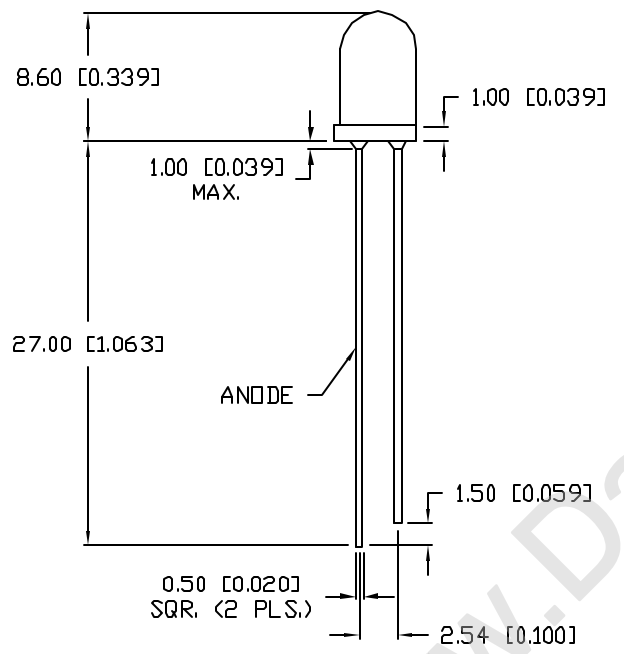
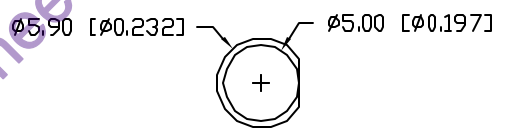


UNCONTROLLED DOCUMENT

PART NUMBER		REV.
SSL-LX5093LIT-11		B
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	ADDED MIN, MAX WAVELENGTHS.	11.28.95
B	E.C.N. #10BRDR. & REDRAWN IN 3D.	5.25.01



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH	631	635	639	nm	
FORWARD VOLTAGE		2.0	2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY		200		med	$I_f=20\text{mA}$
		4.0		med	$I_f=2\text{mA}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED TRANSPARENT				

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

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

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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. <sup>+DECIMAL PRECISION</sup> <sub>-0.00</sub> MAX. = <sup>+0.00</sup> <sub>-DECIMAL PRECISION</sub>

UNCONTROLLED DOCUMENT

REV.	PART NUMBER
B	SSL-LX5093LIT-11

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T-5mm (T-1 3/4) 635nm RED LED,  
 RED TRANSPARENT LENS, LOW CURRENT SELECTION.

**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:	CHECKED BY:	APPROVED BY:	DATE: 11.27.95
BC			PAGE: 1 OF 1
			SCALE: N/A