



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		636		nm	
FORWARD VOLTAGE		2.0	2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY		2500		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		10		$2x$ theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	100	mW
DERATE FROM $25^\circ\text{C}$	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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

NOTES:

1. SSL-LX5093XSIC LED. TRIM LEADS TO 5mm.
2. CRIMP LEAD WIRES TO LED LEADS (2 PCS.).
3. HEAT SHRINK INSULATION, 12.5mm IN LENGTH (2 PCS.).
4. ANODE: LXP-WST24RDT0C, CUT AT 605mm, STRIP 4mm & 9.5mm.
5. CATHODE: LXP-WST24BLT0C, CUT AT 605mm, STRIP 4mm & 9.5mm.

\*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.

PART NUMBER

SSI-LX5093XSIC-610

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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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T-5mm 636nm AlInGaP RED LED, WATER CLEAR LENS,  
WITH 24" WIRE LEADS.

DRAWN BY:

CT

CHECKED BY:

APPROVED BY:

DATE: 5.13.03

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SCALE: N/A