

DATE	REVISIONS	REV	DRAWING NUMBER	REV
			SSL-LX509F3IT	

Top View: Circular with diameter $\phi 4.85 [\phi 0.191]$ MAX.

Side View: Total height 24.00 [0.945], mounting tab height 8.60 [0.339] MAX., mounting tab width 1.50 [0.059] MAX., mounting tab thickness 0.50 [0.020] SQ., mounting tab width at base 2.54 [0.100] MAX.

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	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r = 100\text{ }\mu\text{A}$
AXIAL INTENSITY		150		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED TRANSPARENT				

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

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

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.

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

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DATE: 10-14-97	DWN:	CHK'D:	APPD:
SCALE: N/A			

T-5 (T-1 3/4) FLANGELESS LED,
RED TRANSPARENT.

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