

DATE	REVISIONS	REV
4-10-92	REDRAWN/ CHG'D AXIAL INTENSITY FROM "250" TO "40"	A
9-16-92	CHG'D DIA FROM "4.8 DIA" TO "4.85 MAX"/	B
6-20-95	UPDATED SAFE OP. SPECS. AND WHERE NOTED./	C

DRAWING NUMBER	REV
SSL-LX509F3SRD	C

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660 (RED)		nm	
FORWARD VOLTAGE		1.7	2.2	V_f	
REVERSE VOLTAGE	4.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		(C)A 80		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		(C) 60		2x theta	
EMITTED COLOR :	RED				
EPOXY LENS FINISH:	RED DIFFUSED				

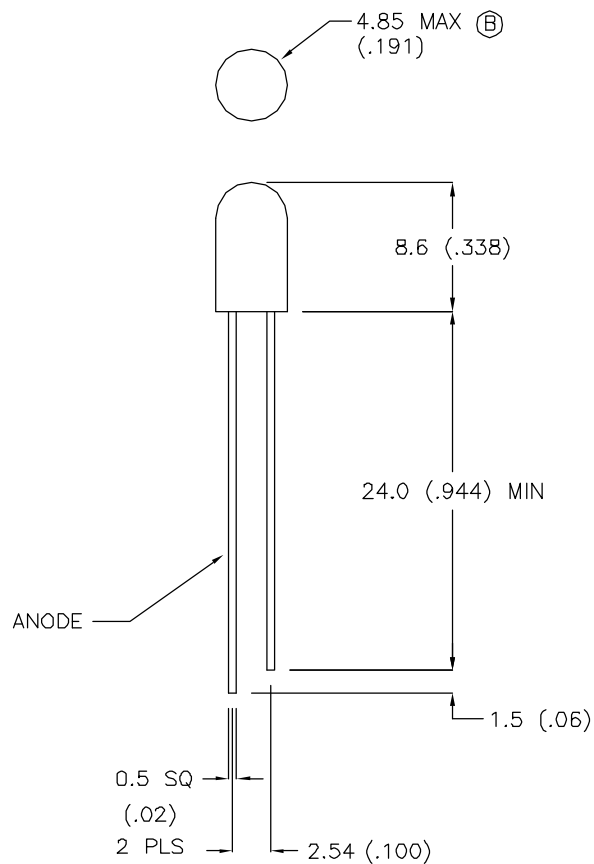
LIMITS OF SAFE OPERATION AT $25\text{ }^\circ\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
AVG FORWARD CURRENT	30	mA
POWER DISSIPATION	100	mW
DERATE FROM $25\text{ }^\circ\text{C}$	-1.3	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

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

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.



UNIT: mm
TOLERANCE: ± 0.2

LUMEX OPTO COMPONENTS INC.		292 E. HELLEN ROAD PALATINE, ILLINOIS 60067 (708) 359-2790	
DATE: 4-10-92	APPROVED BY:	DRAWN BY:	
SCALE: N/A			
T5 (T-1 3/4) FLANGELESS LED, SUPER RED DIFFUSED			
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