

DATE	REVISIONS	REV	DRAWING NUMBER SSS-LX5093YD-250B	REV
------	-----------	-----	-------------------------------------	-----

Technical drawing of an LED component. The side view shows a cylindrical body with a hemispherical lens on top. Dimensions include: lens diameter $\phi 5.00$ [0.197], lens height 8.60 [0.339], body height 6.35 [0.250], total height 27.40 [1.080] MIN., and a 25.40 [1.000] MIN. section. The bottom view shows a circular base with a diameter of $\phi 5.90$ [0.232] and a central square pad with a width of 0.50 [0.020] SQ. 2 PL. Two leads are shown, with one labeled 'ANODE'. Callouts 1 and 2 point to the lens and the body respectively.

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		585 (YELLOW)		nm	
FORWARD VOLTAGE		2.0	2.8	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r = 100\mu\text{A}$
AXIAL INTENSITY		20.0		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE		80		$2\times$ theta	
EMITTED COLOR	YELLOW				
EPOXY LENS FINISH	YELLOW DIFFUSED				

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	$^{\circ}\text{C}$
LEAD SOLDERING TEMP	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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

NOTES:

- SSL-LX5093YD LED.
- SSS-LX250B5, .250" LONG, BLACK PVC SPACER

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.

292 E. HELLEN ROAD
PALATINE, ILLINOIS 60067
(708) 359-2790

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX OPTO/COMPONENTS, INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX OPTO/COMPONENTS, INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

DATE: 1-19-96	DWN:	CHK'D:	APPD:
SCALE: N/A			

T-5 (T-1 3/4) LED, YELLOW DIFFUSED
WITH .250" SPACER

PAGE 1 OF 1	DRAWING NUMBER SSS-LX5093YD-250B	REV
-------------	-------------------------------------	-----