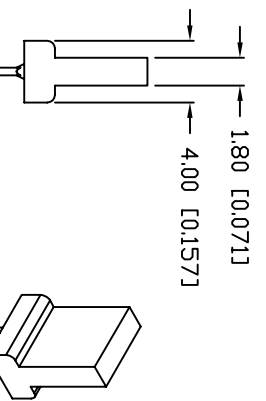




**THE DATASHEET OF
SSL-LX2583YD**



PART NUMBER		REV.
SSL-LX2583YD		B
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN IN 3D.	6.14.01
B	E.C.N. #10BRDR. & REDRAWN IN 3D.	6.14.01



5.50 [0.217]
2.00 [0.079]
1.80 [0.071]
4.00 [0.157]
1.50 [0.059]
2.54 [0.100]

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		585		nm	
FORWARD VOLTAGE		2.1	2.5	V_f	$I_f=100\mu\text{A}$
REVERSE VOLTAGE	5.0			V_r	$I_f=20\text{mA}$
AXIAL INTENSITY		10		mcad	
VIEWING ANGLE		80		2θ	
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/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		3 SEC. MAX
* $t < 10\mu\text{s}$		

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=-0.00

DECIMAL PRECISION MAX.= ±0.00

MEMBER
583YD
585nm YELLOW LED,
LENS.

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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.

UNCONTROLLED DOCUMENT

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