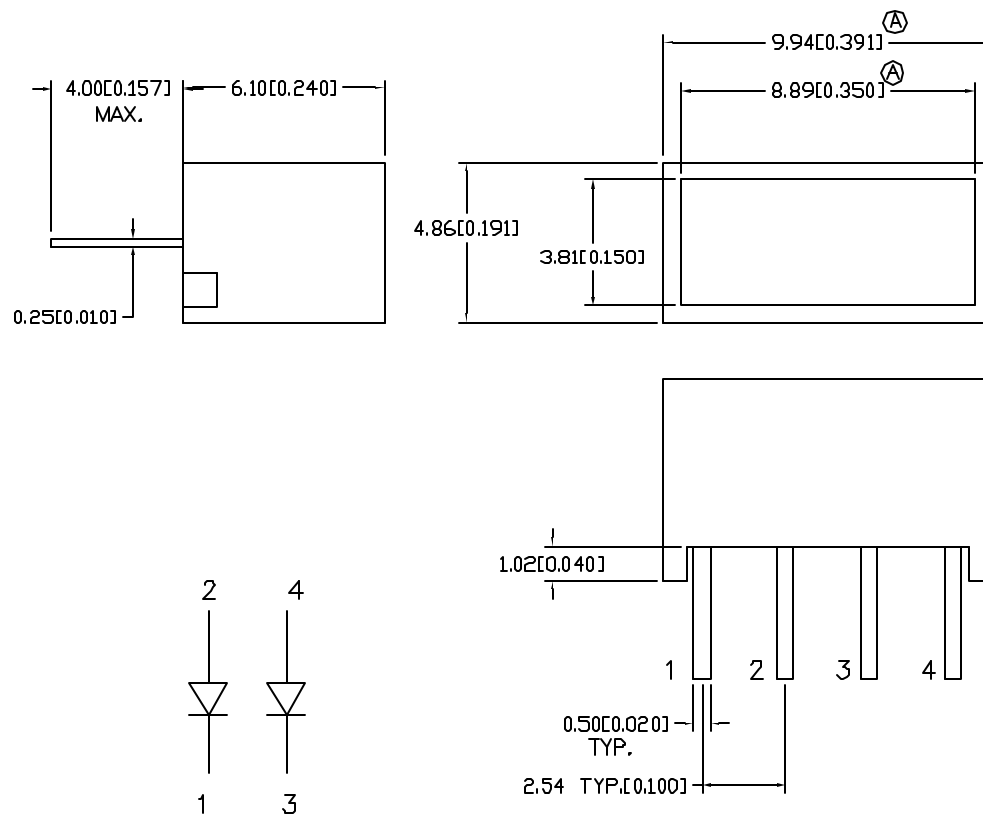


DATE	REVISIONS	REV
9-27-96	E.C.N. #10241./	A

DRAWING NUMBER	REV
SSB-LXA100SRW	A



UNIT: mm (INCHES)  
TOLERANCE  $\pm 0.25$  ( $\pm 0.01$ ) UNLESS OTHERWISE SPECIFIED

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660 (RED)		nm	
FORWARD VOLTAGE		1.7	2.2	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r = 100\text{uA}$
AXIAL INTENSITY		40		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE		160		2x theta	
EMITTED COLOR	RED				
EPOXY LENS FINISH	MILKY WHITE	DIFFUSED			

## 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 $38^\circ\text{C}$	-0.5	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP	-20 TO +85	$^\circ\text{C}$
LEAD SOLDERING TEMP	+230	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

\*  $t < 10\text{uS}$

## 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.

**LUMEX**  
OPTO COMPONENTS INC.

290 E. HELLEN ROAD  
PALATINE, ILLINOIS 60067  
(847) 359-2790

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DATE: 4-8-93	DWN:	CHK'D:	APPD:
SCALE: N/A			

8.89mm x 3.81mm LIGHT BAR,  
MILKY WHITE DIFFUSED

PAGE 1 OF 1	DRAWING NUMBER SSB-LXA100SRW	REV A
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