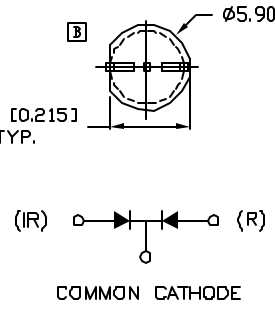
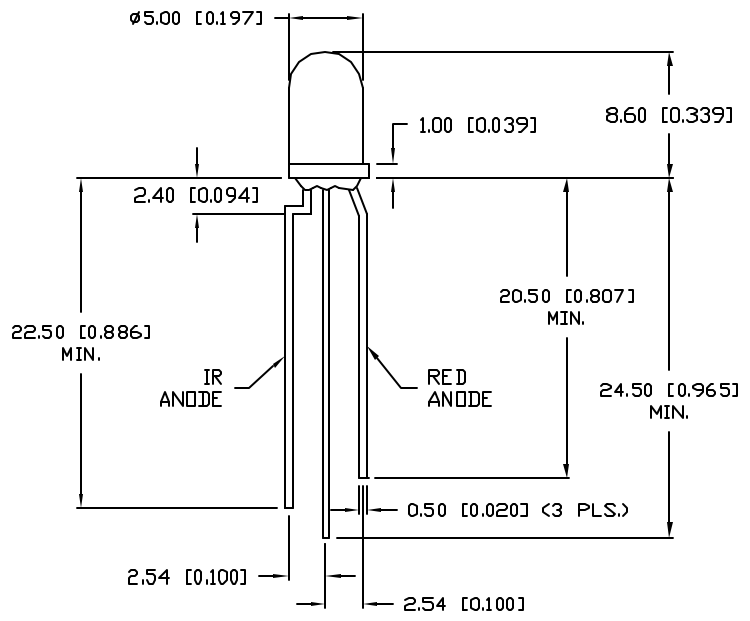


DATE	REVISIONS	REV
3-18-98	E.C.N. #10BRDR. & REDRAWN./	A
7-13-98	E.C.N. #10443./ CORRECTED FLAT TO BE ON IR SIDE.	B

DRAWING NUMBER	REV
SSL-LX50991EW	B



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

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940 (IR)		nm	
		635 (RED)		nm	
FORWARD VOLTAGE (IR/R)		1.4/2.0	1.75/2.5	V _f	
REVERSE VOLTAGE	5.0			V _r	I _r =100 μ A
RADIANT INTENSITY (IR)	3.2		12.5	mW/Sr	I _f =20mA
AXIAL INTENSITY (R)	20	55	90	μ cd	I _f =20mA
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(IR/R)	1200/150	mA
STEADY CURRENT	(IR/R)	50/30	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

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

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 INCORPORATED		290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 (847) 359-2790	
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DATE: 9-30-97	DWN:	CHK'D:	APPD:
SCALE: N/A			
T-5mm (T-1 3/4) LED BI-POLAR IR/RED, COMMON CATHODE.			
PAGE 1 OF 1	DRAWING NUMBER SSL-LX50991EW		REV B

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