



PART NUMBER	SSI-LXR3816ID-01			REV.	D
DATE	E.C.N. NUMBER AND REVISION COMMENTS			REV.	
06.09.94	ADDED NOTES.			A	
09.16.94	ADDED NOTES AND SAFE OPER. SPECS.			B	
11.12.01	E.C.N. #10810, & REDRAWN IN 3D.			C	
03.05.12	E.C.N. #10BRDR. & REDRAWN.			D	

ELECTRO-OPTICAL CHARACTERISTICS $T_a=25^\circ\text{C}$ $I_f=20\text{mA}$					
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE			2.0	2.5	Vf
REVERSE VOLTAGE		5.0		Vr	$I_r=100\mu\text{A}$
AXIAL INTENSITY			30	mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	RED				
LENS FINISH:	RED DIFFUSED				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM $25^\circ\text{C}$	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY	3	SEC.

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

## NOTES:

[B] [A]1. SSL-LX5093ID, RED LED.  
 2. SSI-LXR3816, CHROME HOUSING.  
 3. SSH-LXH4815BSC, BUSHING (NOT SHOWN).  
 4. PACKAGE LOCKWASHER AND NUT SEPARATELY.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE:  $X=\pm 1$  ( $\pm 0.039$ ),  $X.X=\pm 0.5$  ( $\pm 0.020$ ),  $X.XX=\pm 0.25$  ( $\pm 0.010$ ),  $X.XXX=\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ). MIN=  $^{+0.00}$  MAX=  $^{+0.00}$   $^{+0.00}$   $^{+0.00}$

UNCONTROLLED DOCUMENT

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