

UNCONTROLLED DOCUMENT

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

PARAMETER	RED	YELLOW	GREEN	UNITS	TEST COND
PEAK WAVELENGTH	635	585	565	nm	
FORWARD VOLTAGE (TYP.)	2.0	2.1	2.2	nm	
FORWARD VOLTAGE (MAX.)	2.5	2.5	2.6	V_f	
REVERSE VOLTAGE	5.0	5.0	5.0	V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY	30	30	30	mcd	$I_f=20\text{mA}$
VIEWING ANGLE	60	60	60	2x theta	
LED POSITION:	PER CHART				
EPOXY LENS FINISH:	DIFFUSED PER COLOR, BICOLORS-MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

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

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

NOTES:

- G/I DENOTES BICOLOR 565nm GREEN/635nm RED LED WITH MILKY WHITE DIFFUSED EPOXY. GREEN ANODE ORIENTED TO LEFT SIDE IN FRONT VIEW.
- G/G DENOTES BIPOLAR GREEN LED WITH GREEN DIFFUSED LENS.
- I/G DENOTES BICOLOR 635nm RED/565nm GREEN LED WITH MILKY WHITE DIFFUSED EPOXY. RED ANODE ORIENTED TO LEFT SIDE IN FRONT VIEW.
- HOLDER MATERIAL: MONSANTO BLACK VDYNE (NYLON 86) OR EQUIVALENT, UL 94V-0.

PART NUMBER
SSF-LXH100M-XXXREV.
Q

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	CHG'D '695nm' TO '635nm' RED, R's IN TABLE ARE I's.	1-24-92
B	REDRAWN/ CHG'D '-050' TO 7 POSITION WITH NEW COLOR COMBO/ CHG'D '-047' LED #2 FROM G TO G/G.	2-6-92
C	ADDED BILL OF MATERIALS.	3-9-92
D	ADDED '-051' TO TABLE.	4-13-92
E	CHG'D SSL-LX509F3IGW TO SSL-LX509F3GIW.	4-24-92
F	ADDED '-052' TO TABLE.	1-21-93
G	CHG'D '-050' FROM 7 POSITION TO 6.	4-5-93
H	CHG'D '-051' FROM GYIIGGG TO GIYGGYGGG.	5-17-93
I	ADDED '-053' TO TABLE.	10-4-93
J	CHG'D '-053,' POSITION 1 FROM G/I TO I/G.	10-4-93
K	CHG'D '-053' POSTION 6 FROM G TO I.	12-7-94
L	ADDED NOTE 1.	5-31-94
M	ADDED '-054' TO TABLE AND NOTES.	10-4-95
N	ADDED '-055' TO TABLE AND NOTE 2.	12-15-95
O	E.C.N. #10291.	1-13-97
P	E.C.N. #10BRDR. & REDRAWN.	5-8-98
Q	E.C.N. #10563.	12-22-99

PART#	POS.	1	2	3	4	5	6	7	8	9
-045	5	I	I	I	Y	Y	-	-	-	-
-046	2	G	G/I	-	-	-	-	-	-	-
-047	2	G	G/G	-	-	-	-	-	-	-
-048	7	G	G/I	I	I	I	Y	Y	-	-
-049	3	I	Y	G	-	-	-	-	-	-
-050	6	G	G	Y	I	G	Y	-	-	-
-051	9	G	I	Y	G	G	Y	G	G	G
-052	7	G	G/G	I	I	I	Y	Y	-	-
-053	6	I/G	Y	Y	Y	I	-	-	-	-
-054	2	Y	G	-	-	-	-	-	-	-
-055	5	I	Y	X	G	G	-	-	-	-

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010"$)REV.
QPART NUMBER
SSF-LXH100M-XXX

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MATING T-5mm (T-1 3/4) RIGHT ANGLE FAULT INDICATOR,
LED COLORS PER CHART.

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.

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SCALE: N/A