



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		430 (BLUE)		nm	
		585 (YELLOW)		nm	
FORWARD VOLTAGE (B/Y)		4.5/2.1	5.5/2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (B/Y)		25/40		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		$2x$ theta	
EMITTED COLOR:	POSITION 1-SUPER BLUE				
	POSITION 2-YELLOW				
EPOXY LENS FINISH:	POSITION 1-BLUE DIFFUSED				
	POSITION 2-YELLOW DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER LED

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(B/Y)	100/150	mA
STEADY CURRENT		30	mA
POWER DISSIPATION	(B/Y)	98/105	mW
DERATE FROM 25°C	(B/Y)	-1.0/-1.6	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

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

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

NOTES:

- SSL-LX3044SBD/A, SUPER BLUE LED.
- SSL-LX3044YD, YELLOW LED.
- SSH-LXH2103 HOLDER.

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

REV.	PART NUMBER SSF-LXH2103SBYD/2
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T-3mm (T-1) LED, PIGGY-BACK HOLDER,
POS. 1: BLUE LED, BLUE DIFFUSED LENS,
POS. 2: YELLOW LED, YELLOW DIFFUSED LENS.

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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