



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$		$I_f=20\text{mA}$		
PARAMETER		MIN	TYP	MAX
PEAK WAVELENGTH		635 (RED)		nm
		465 (BLUE)		nm
		520 (GREEN)		nm
FORWARD VOLTAGE	(R)	2.2	2.7	V_f
	(B)	3.4	4.0	V_f
	(G)	3.4	4.0	V_f
REVERSE VOLTAGE		5.0		V_r
AXIAL INTENSITY	(R/B/G)	1100/600/2200		mcd
VIEWING ANGLE		60		$I_f=20\text{mA}$ 2x theta
EMITTED COLOR:	RED/BLUE/GREEN			
EPOXY LENS FINISH:	MILKY WHITE DIFFUSED.			

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	R/B/G	100	mA
STEADY CURRENT	R/B/G	30/20/20	mA
POWER DISSIPATION	R/B/G	95/80/80	mW
DERATE FROM 25°C		-1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.		-30 TO +80	$^\circ\text{C}$
STORAGE TEMP.		-40 TO +100	$^\circ\text{C}$
SOLDERING TEMP.		+260	$^\circ\text{C}$
2.0MM FROM BODY		5 SEC. MAX	

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

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



UNCONTROLLED DOCUMENT

*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
-0.00

REV.

A

PART NUMBER

SLX-LX509F7SIUPUBW

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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.

T-5mm (T-1 3/4) RED/GREEN/BLUE (RGB) LED,
COMMON CATHODE, 0.05" LEAD SPACING,
MILKY WHITE DIFFUSED LENS FLANGELESS.



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