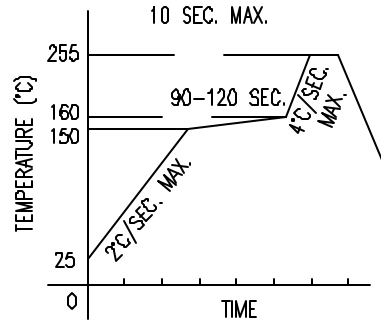
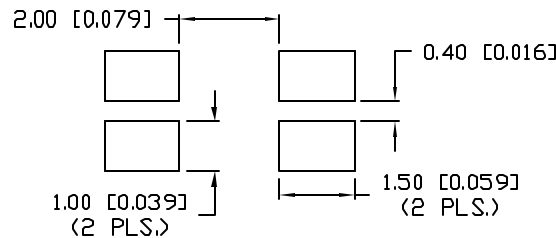


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		605 (ORANGE)		nm	
		525 (GREEN)		nm	
		470 (BLUE)		nm	
FORWARD VOLTAGE (V)		2.0	2.6	V <sub>f</sub>	
	(G)	3.3	3.9	V <sub>f</sub>	
	(B)	3.3	3.9	V <sub>f</sub>	
REVERSE VOLTAGE (V)	5.0			V <sub>r</sub>	I <sub>r</sub> =100μA
AXIAL INTENSITY (O/G/B)		140/200/90		med	I <sub>f</sub> =20mA
VIEWING ANGLE		120		2x theta	
EMITTED COLOR:	ORANGE/GREEN/BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		100	mA
STEADY CURRENT	{O/G/B}	30/20/20	mA
POWER DISSIPATION	{O/G/B}	75/80/80	mW
DERATE FROM 25°C		-1.2	mW/°C
OPERATING TEMP.		-30 TO +80	°C
STORAGE TEMP.		-40 TO +85	°C

\* t < 10μS

NOTES:

1. THE ANODE IS ORIENTED AWAY FROM THE TAPE SPROCKET HOLE.



CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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

SML-LX1210SOUPGUSB

CONFIDENTIAL INFORMATION

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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.



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2.7mm x 3.2mm P.C.B. SURFACE MOUNT LED,  
FULL COLOR, WATER CLEAR LENS,  
TAPE AND REEL, 2,000 PIECES PER REEL.

DRAWN BY: JD	CHECKED BY:	APPROVED BY:	DATE: 11.14.05
			PAGE: 1 OF 1
			SCALE: N/A