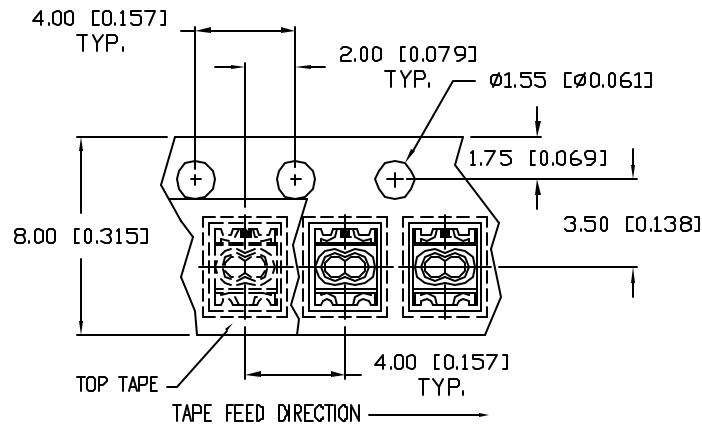
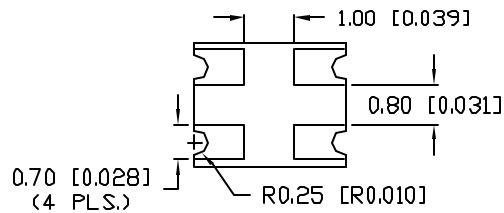
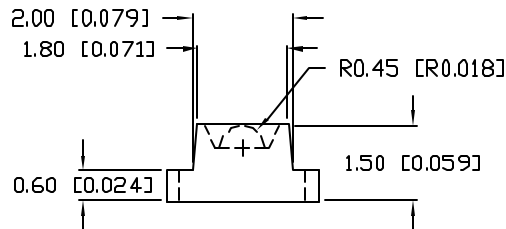
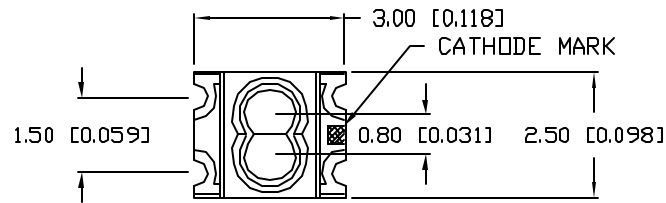
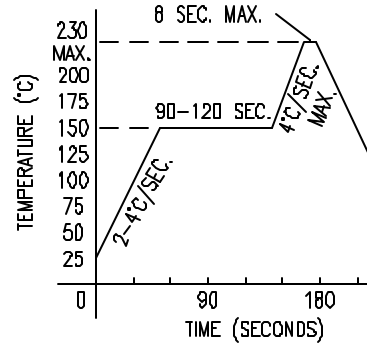


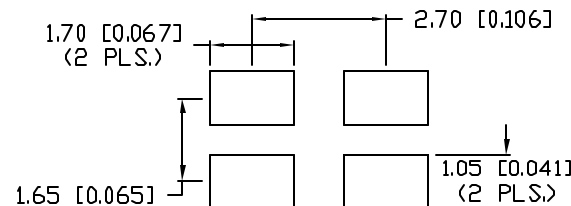
TOP VIEW POLARITY

BLUE ANODE BLUE CATHODE
IR CATHODE IR ANODE

REFLOW PROFILE



RECOMMENDED SOLDER PAD LAYOUT



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

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		470 (BLUE)		nm	
		880 (IR)		nm	
FORWARD VOLTAGE (B/IR)		3.5/1.3	4.0/1.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (B/IR)		80/1.4		mcd/(mW/sr)	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:		BLUE/IR			
EPOXY LENS FINISH:		WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		100	mA
STEADY CURRENT (B/IR)		25/65	mA
POWER DISSIPATION		110	mW
DERATE FROM 25°C		-1.0	mW/ $^\circ\text{C}$
OPERATING TEMP.		-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.		-40 TO +90	$^\circ\text{C}$

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

NOTES:

1. THE POLARITY MARK IS ORIENTED
TOWARDS 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 (±0.006). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN=+DECIMAL PRECISION -0.00, MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

SML-LXL1210USBCLC

2.7mm x 3.0mm PCB, SURFACE MOUNT LED,
InGaN BLUE/AlGaAs IR CHIPS,
WATER CLEAR LENS, TAPE AND REEL

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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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DATE: 5.24.05

PAGE: 1 OF 1

SCALE: N/A