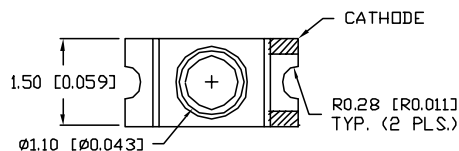
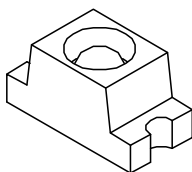
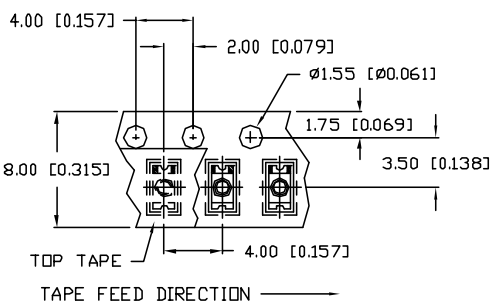
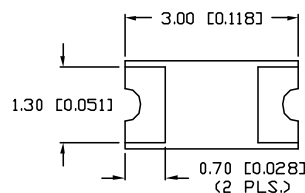
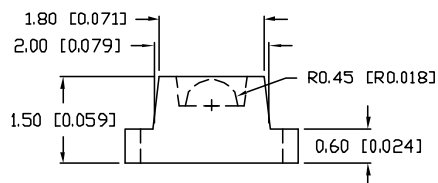


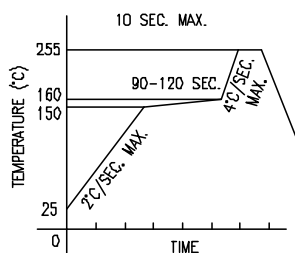
# UNCONTROLLED DOCUMENT



ANODE  $\rightarrow$  CATHODE

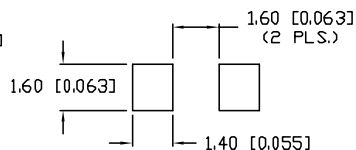


## LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

## RECOMMENDED SOLDER PAD LAYOUT



PART NUMBER			REV.
SML-LXL1206SIC-TR			B
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE	
A	E.C.N. #10967.	3.14.03	
B	E.C.N. #11148.	3.17.05	

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		636		nm	
FORWARD VOLTAGE		2.0	2.6	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY		75		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		20		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

## LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	160	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-30 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

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

## NOTES:


1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS



# UNCONTROLLED DOCUMENT

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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= -0.00 DECIMAL PRECISION MAX.= +0.00 DECIMAL PRECISION

REV.	PART NUMBER		CONFIDENTIAL INFORMATION				290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw	
B	SML-LXL1206SIC-TR		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.					
3.0mm x 1.6mm PCB SURFACE MOUNT LED WITH LENS, 636nm SUPER HIGH INTENSITY RED LED, WATER CLEAR LENS, TAPE AND REEL.			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.		DRAWN BY: CT		CHECKED BY:	APPROVED BY:
							DATE: 1.8.01	PAGE: 1 OF 1
							SCALE: N/A	