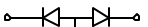
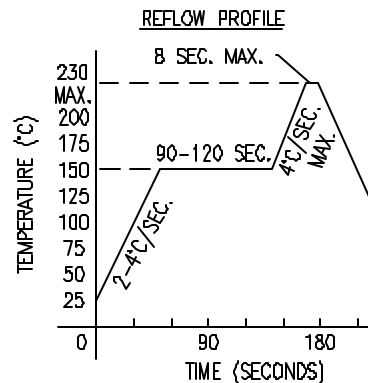
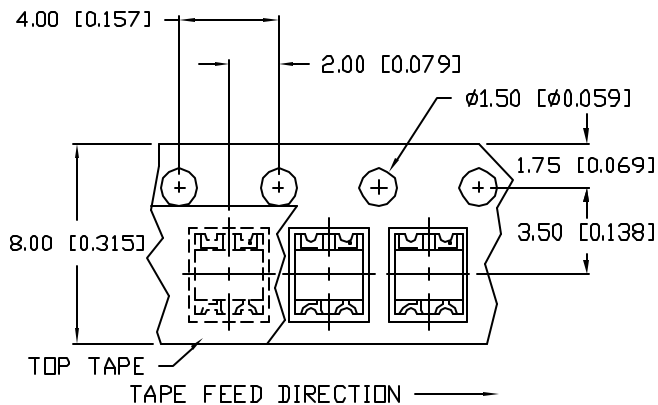
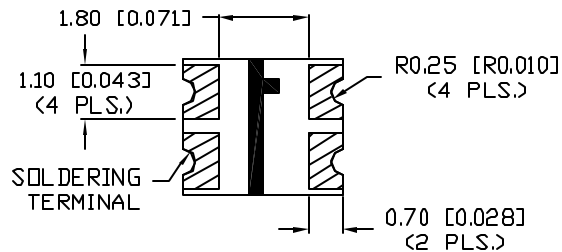
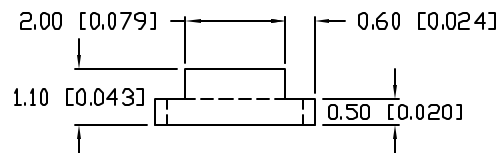
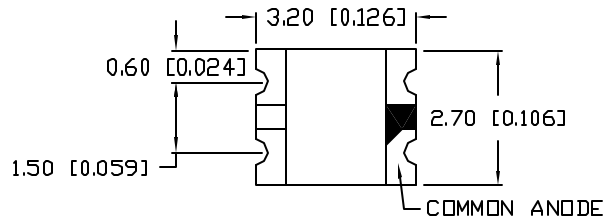
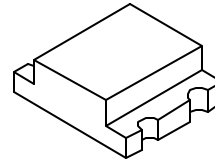


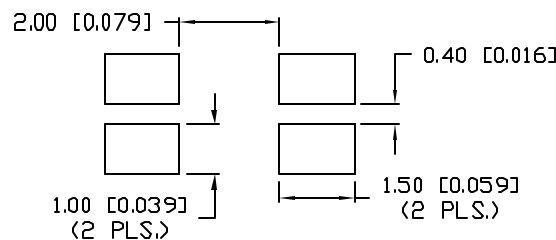
SML-LX1210SIUPGUSB

PRELIMINARY IN P/N DIR.

GREEN  RED
 BLUE  COMMON



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		636 (RED)		nm	
		525 (GREEN)		nm	
		470 (BLUE)		nm	
FORWARD VOLTAGE (R)		2.0	2.6	V_f	
		(G)	3.6	V_f	
		(B)	3.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (R/G/B)		75/120/50		med	$I_f=20\text{mA}$
VIEWING ANGLE		160		$2\times\theta$	
EMITTED COLOR:	RED/GREEN/BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		150	mA
STEADY CURRENT		25	mA
POWER DISSIPATION		65	mW
DERATE FROM 25°C		-1.2	$\text{mW}/^\circ\text{C}$
OPERATING TEMP.		-30 TO +80	$^\circ\text{C}$
STORAGE TEMP.		-40 TO +85	$^\circ\text{C}$

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

NOTES:

1. 3,000 PIECES PER REEL.

CAUTION: MOISTURE SENSITIVE DEVICE

1. SHELF LIFE IN SEALED BAG:
12 MONTHS AT $<40^\circ\text{C}$ AND $<90\%$ RELATIVE HUMIDITY (RH).
2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE MOUNTED WITHIN 48 HOURS OR STORED AT $<30\%$ RH.

UNCONTROLLED DOCUMENT

*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 -0.00 DECIMAL PRECISION

REV.

PART NUMBER

SML-LX1210SIUPGUSB

2.7mm x 3.2mm P.C.B. SURFACE MOUNT LED,
 FULL COLOR, WATER CLEAR LENS,
 TAPE AND REEL, 3,000 PIECES PER REEL.

CONFIDENTIAL INFORMATION

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.

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.



290 E. HELEN ROAD
 PALATINE, IL 60067-6976
 PHONE: +1.847.359.2790
 US WEB: www.lumex.com
 TW WEB: www.lumex.com.tw

DRAWN BY:

GT

CHECKED BY:

APPROVED BY:

DATE: 10.16.01

PAGE: 1 OF 1

SCALE: N/A