



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

PARAMETER	ORANGE	GREEN	BLUE	UNITS	TEST COND
PEAK WAVELENGTH	610	525	470	nm	
FORWARD VOLTAGE (TYP.)	26	45.5	45.5	V_f	
FORWARD VOLTAGE (MAX.)	28.6	52	52	V_f	
REVERSE VOLTAGE	5.0	5.0	5.0	V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY	600	1000	250	mcd	$I_f=20\text{mA}$
VIEWING ANGLE	30	30	30	2x theta	
LED POSITION:	E3	E1	E2		
EPOXY LENS FINISH:	WATER CLEAR LENS				

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	{O/G/B}	150/150/200	mA
STEADY CURRENT	{O/G/B}	25/25/30	mA
POWER DISSIPATION		105	mW
DERATE FROM 25°C		-1.2	mW/ $^{\circ}\text{C}$
OPERATING, STORAGE TEMP.		-40 TO +85	$^{\circ}\text{C}$
SOLDERING TEMP.		+260	$^{\circ}\text{C}$
2.0mm FROM BODY			3 SEC. MAX

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

NOTES:

1. SML-LXL1209USBC-TR. (13 PCS.), E2-E4
2. SML-LXL1209SUPGC-TR. (13 PCS.), E1-E4
3. SML-LXL1209SOC-TR. (13 PCS.), E3-E4

*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= -0.00, MAX.= +0.00

REV.

PART NUMBER

SML-LXL1209ASSY-2

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.



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

PCB STRIP LED, 39 DIODES, 7.8mm PITCH,
ORANGE, GREEN, BLUE, WATER CLEAR LENS.

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:

GB

CHECKED BY:

APPROVED BY:

DATE: 7.1.02

PAGE: 1 OF 1

SCALE: N/A