

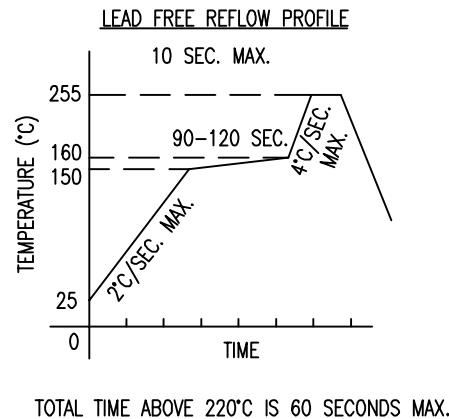
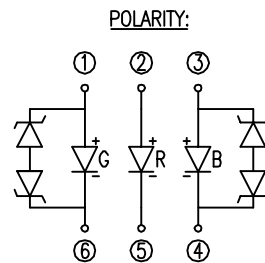
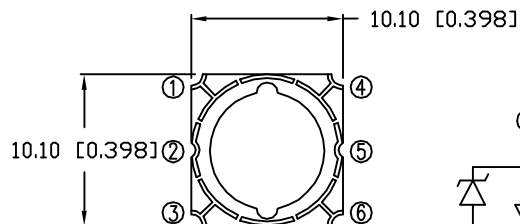
UNCONTROLLED DOCUMENT

PART NUMBER  
SML-LX3939RGBC-TR

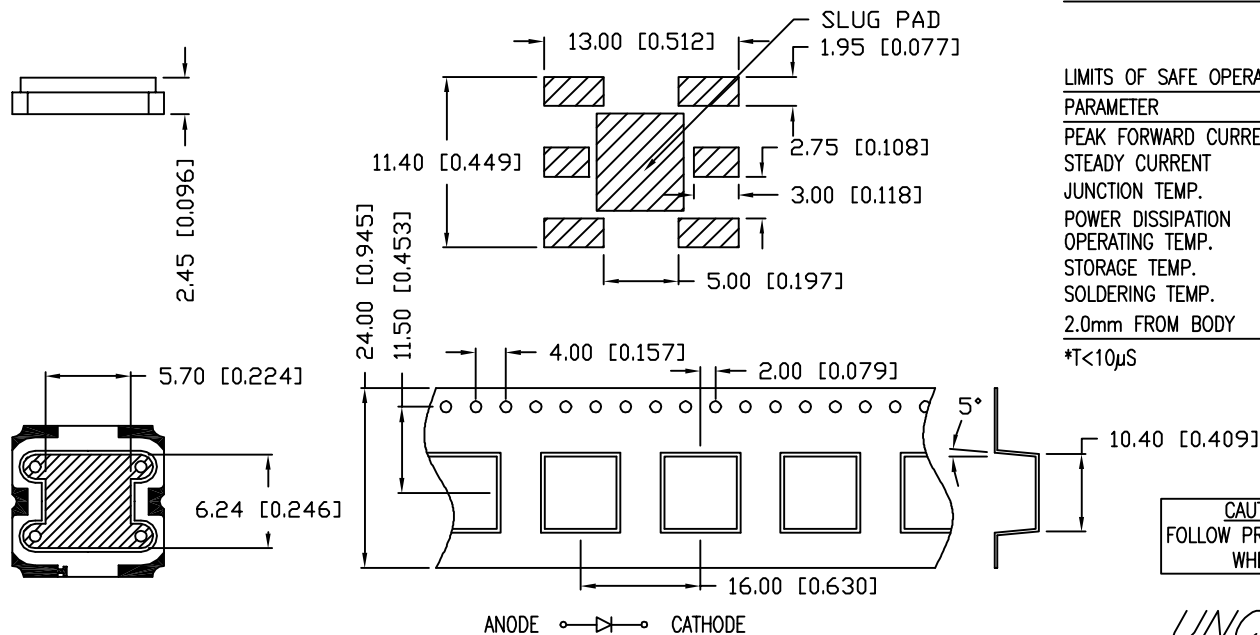
REV.

A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11588.	10.07.09



PAD LAYOUT:

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		626 (RED)		nm	
		525 (GREEN)		nm	
		470 (BLUE)		nm	
FORWARD VOLTAGE (R)		2.1	2.65	$V_f$	$I_f=350\text{mA}$
(G)		3.5	3.85	$V_f$	$I_f=350\text{mA}$
(B)		3.5	3.85	$V_f$	$I_f=350\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
TOTAL FLUX (R/G/B)		25/35/8		lm	
VIEWING ANGLE		130		2x theta	
EMITTED COLOR:	RED/GREEN/BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	550/500/500	mA
STEADY CURRENT		350	mA
JUNCTION TEMP.		125	°C
POWER DISSIPATION		5.0	W
OPERATING TEMP.		-40 TO +85	°C
STORAGE TEMP.		-40 TO +100	°C
SOLDERING TEMP.		+260	°C
2.0mm FROM BODY			3 SEC. MAX

\* $T < 10\mu\text{s}$ CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDSCAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

\*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.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

REV.

A

PART NUMBER

SML-LX3939RGBC-TR

10.10mm SQUARE 3 WATT HIGH POWER SMT LED,  
R/G/B LED, WATER CLEAR LENS, 300 PER PEEL.

## 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.

**LUMEX**  
Creating LED and LCD Solutions Together™

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:	CHECKED BY:	APPROVED BY:	DATE: 04.09.09
JN			PAGE: 1 OF 2
			SCALE: N/A

A