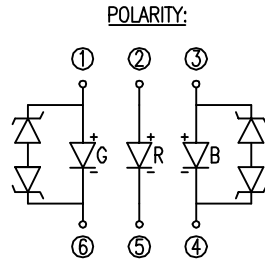
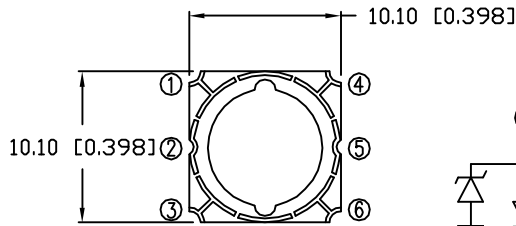


UNCONTROLLED DOCUMENT

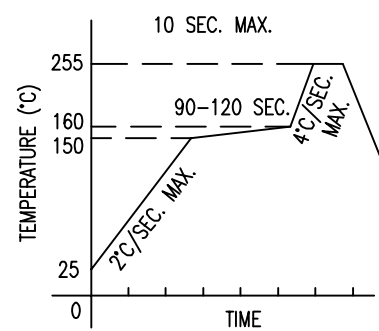
PART NUMBER  
SML-LX3939RGBC-TR

REV.  
A

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

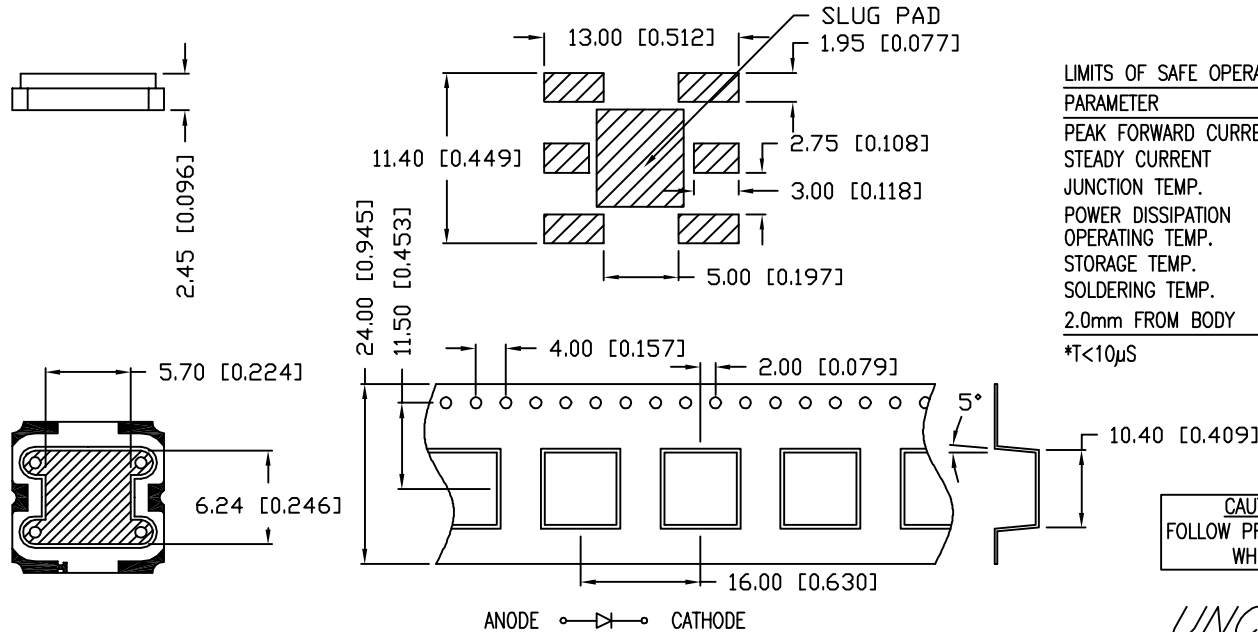


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

PAD LAYOUT:



ANODE CATHODE

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°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 STANDARDS

CAUTION: 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

UNCONTROLLED DOCUMENT

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.	

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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.

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

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