



We Tame Photons to Work for You!



Products > High Power LEDs > TitanBrite LED



**Features / Options**

- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ SMT package eliminates thru-hole soldering
- ▶ Very Long Operational Life

**Applications / Uses**

- ▶ LCD Backlighting
- ▶ Illuminating Signs/Artwork
- ▶ Decorative Lighting
- ▶ Warning and Alarm Lights

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SML-LX3939UWC-TR	High	InGaN	White	-	Clear	6.6	190 lm	130	n/a	—

UNCONTROLLED DOCUMENT

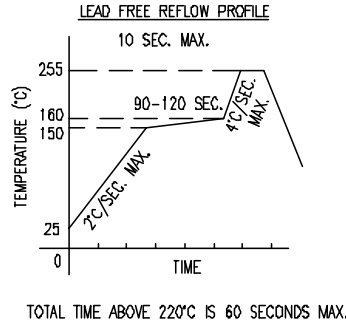
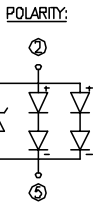
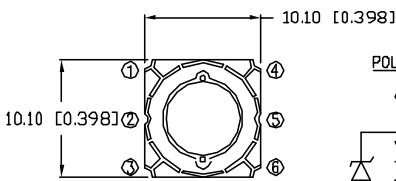
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PART NUMBER

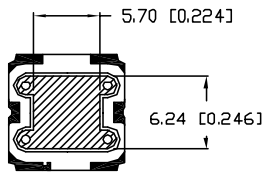
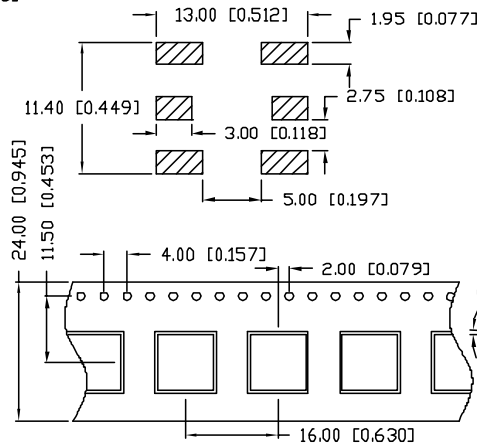
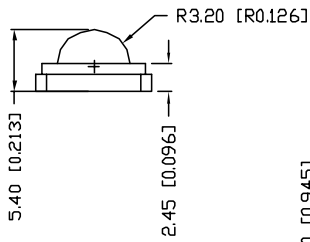
REV.

SML-LX3939UWC-TR

PRELIMINARY IN P/N DIR



PAD LAYOUT:



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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH					nm	
FORWARD VOLTAGE	$V_f$	6.6		8.0	V	$I_f=350\text{mA}$
REVERSE VOLTAGE	$V_r$	5			V	$I_r=10\mu\text{A}$
AXIAL INTENSITY	$I_v$	130		250	Lm	$I_f=350\text{mA}$
VIEWING ANGLE			130		2x theta	
EMITTED COLOR:	WHITE					
COLOR TEMPERATURE		4500	6300	10000	K	
EPOXY LENS FINISH:	CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1.0	A
STEADY CURRENT	700	mA
POWER DISSIPATION	7.5	W
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +80	°C

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

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.



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

REV.	PART NUMBER SML-LX3939UWC-TR	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.	
10.10mm SQUARE 5 WATT HIGH POWER SMT LED, WHITE LED, 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: JN	CHECKED BY: APPROVED BY: DATE: 10.05.07 PAGE: 1 OF 2 SCALE: N/A