



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

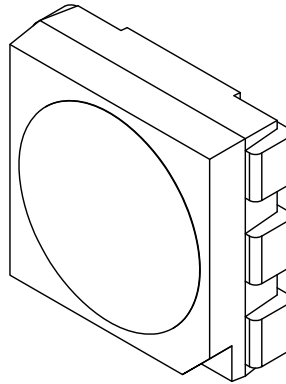
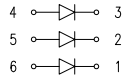
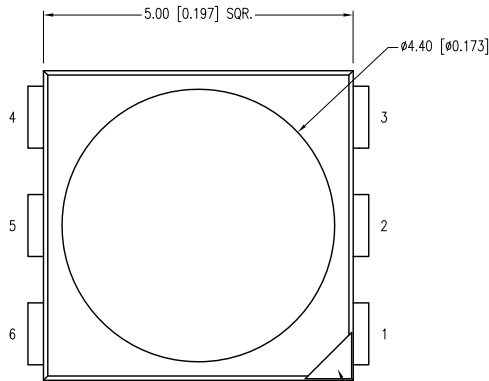
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PART NUMBER	SML-LX5050USBC-TR	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
02.18.14	E.C.N. #11896.		A



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

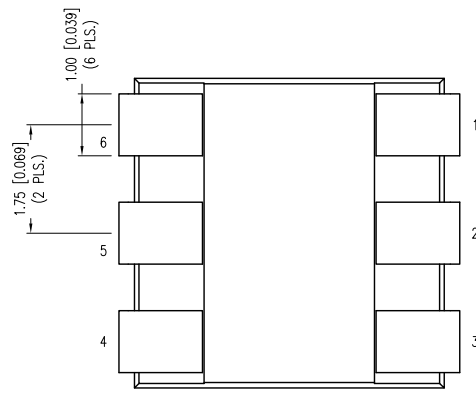
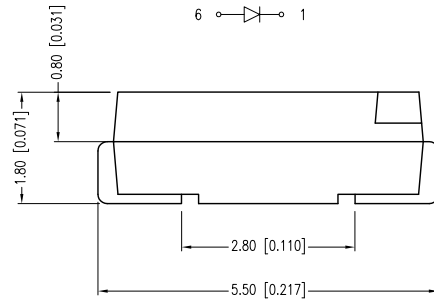
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		470		nm	
FORWARD VOLTAGE	2.8	3.3	3.7	Vf	$I_f=10\mu\text{A}$
REVERSE VOLTAGE	5.0			Vr	$I_f=20\text{mA}$
AXIAL INTENSITY		190	320	mcd	$I_f=20\text{mA}$
VIEWING ANGLE		120		2x theta	
EMITTED COLOR:	BLUE				
LENS FINISH:	WATER CLEAR				

NOTE: VALUES ARE PER DIE.

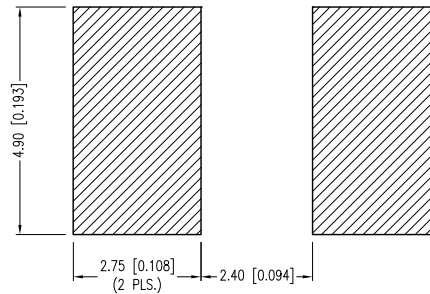
LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	125	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	110	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

\*  $t < 10\mu\text{s}$   
NOTE: VALUES ARE PER DIE.



RECOMMENDED SOLDER PAD LAYOUT



**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.= -DECIMAL PRECISION

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MEMBER OF ITW PHOTONICS GROUP

5.0x5.0mm SML W/REFLECTOR, 470nm BLUE, WATER CLEAR, TAPE & REEL.

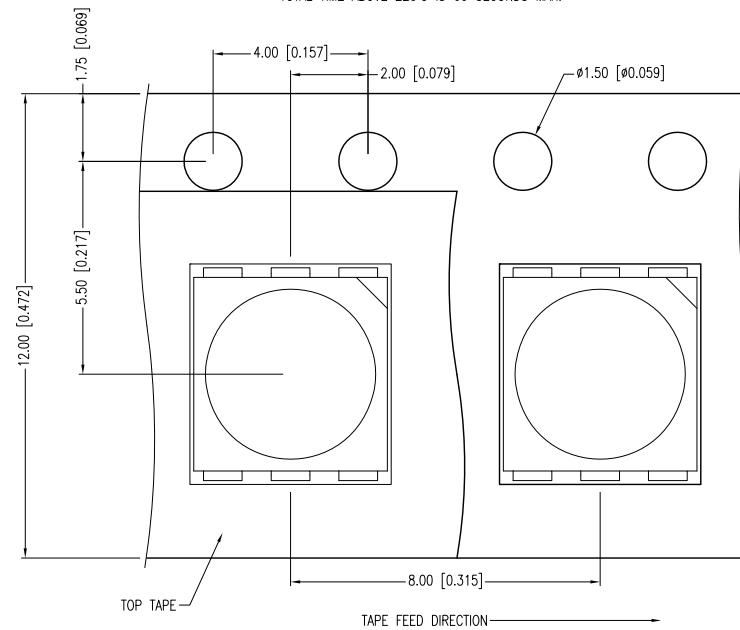
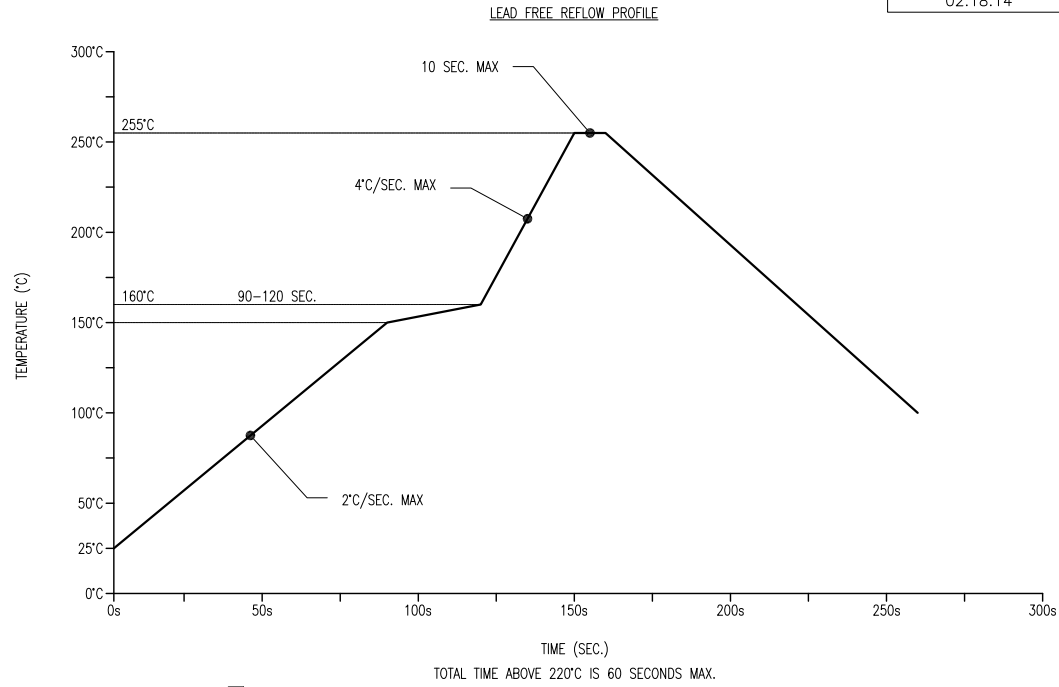
\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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UNCONTROLLED DOCUMENT

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UNIT:	mm [INCH]		Ⓟ

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**NOTES:**

1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. 3,000 PIECES PER REEL.

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