

UNCONTROLLED DOCUMENT

PART NUMBER

REV.

SML-LX5731USBC-TR

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			470		nm	
FORWARD VOLTAGE	V_f		3.5	4.0	V	$I_f = 350\text{mA}$
REVERSE VOLTAGE	V_r	5			V	$I_r = 10\mu\text{A}$
AXIAL INTENSITY	I_v		10		lm	$I_f = 350\text{mA}$
VIEWING ANGLE			130		2x theta	
EMITTED COLOR:	BLUE					
EPOXY LENS FINISH:	CLEAR					

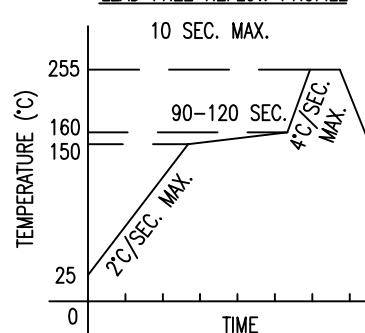
LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	350	mA
POWER DISSIPATION	2.0	W
DERATE FROM 25°C	- 1.2	mW/°C
OPERATING, STORAGE TEMP.	- 35 TO + 85	°C

*T<10μS

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 3 STANDARDS

RECOMMENDED SOLDER PAD LAYOUT



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

1.60 [0.063]
← SQR TYP.
(6 PLS.)

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LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+DECIMAL PRECISION MAX.=+0.00
-0.00 -DECIMAL PRECISION

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14.60mm x 8.00mm SURFACE MOUNT HIGH POWER LED,
470nm InGaN BLUE LED, CLEAR LENS, 1W,
800 PECIES PER TAPE AND REEL.

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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.



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SCALE: N/A

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