

## Excellent Integrated System Limited

Stocking Distributor

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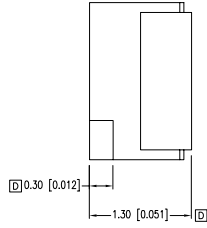
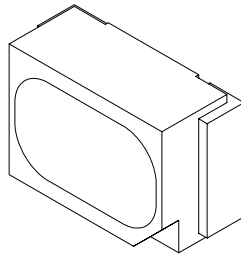
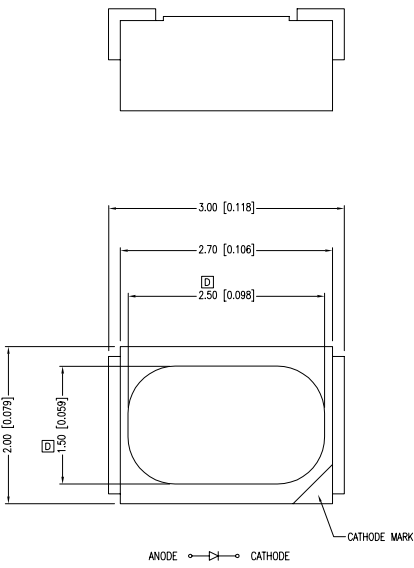
[Lumex, Inc.](#)  
[SML-LX23UWC-TR](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

UNCONTROLLED DOCUMENT

PART NUMBER	SML-LX23UWC-TR	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
8.7.02	E.C.N. #10898 & #10BRDR.		A
3.14.03	E.C.N. #10967.		B
2.8.05	E.C.N. #11148.		C
12.15.09	E.C.N. #11603.		D
03.28.11	E.C.N. #10BRDR & REDRAWN.		E



ELECTRO-OPTICAL CHARACTERISTICS TA = 25°C

PARAMETER	MIN	TYP.	MAX	UNITS	TEST COND.
PEAK WAVELENGTH		550		nm	
FORWARD VOLTAGE		3.5	4.0	Vf	If=20mA
REVERSE VOLTAGE	5.0			Vr	Ir=10A
AXIAL INTENSITY*		150		mcd	If=20mA
CHROMATICITY (X)		0.31			If=20mA
COORDINATES (Y)**		0.32			
VIEWING ANGLE		120		2x theta	

EMITTED COLOR: WHITE  
EPOXY LENS FINISH: WATER CLEAR  
\*AXIAL INTENSITY TESTING CONDITION 550nm WAVELENGTH.  
\*\*THE ICI STANDARD COLORIMETRIC SYSTEM.

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
PULSE FORWARD CURRENT	I <sub>p</sub>	100*	mA
STEADY CURRENT	I <sub>F</sub>	30	mA
POWER DISSIPATION	P <sub>D</sub>	110	mW
OPERATING TEMP.	T <sub>opr</sub>	-30 TO +80	°C
STORAGE TEMP.	T <sub>stg</sub>	-40 TO +100	°C

\*DUTY 1/10 PULSE WIDTH 10ms

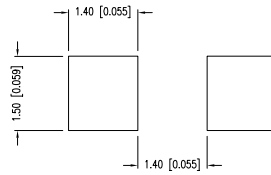
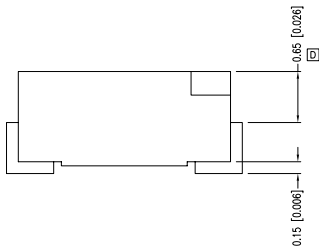
NOTES:

- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

**CAUTION: MOISTURE SENSITIVE DEVICE**  
PER JEDEC LEVEL 4 STANDARDS

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

RECOMMENDED SOLDER PAD LAYOUT



\*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 MAX= -DECIMAL PRECISION UNCONTROLLED DOCUMENT

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2mm x 3mm SURFACE MOUNT WITH REFLECTOR, 550nm WHITE LED, WATER CLEAR LENS.

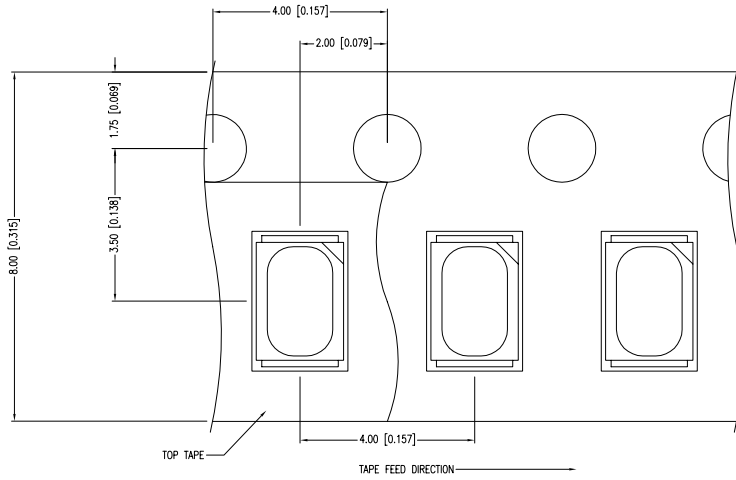
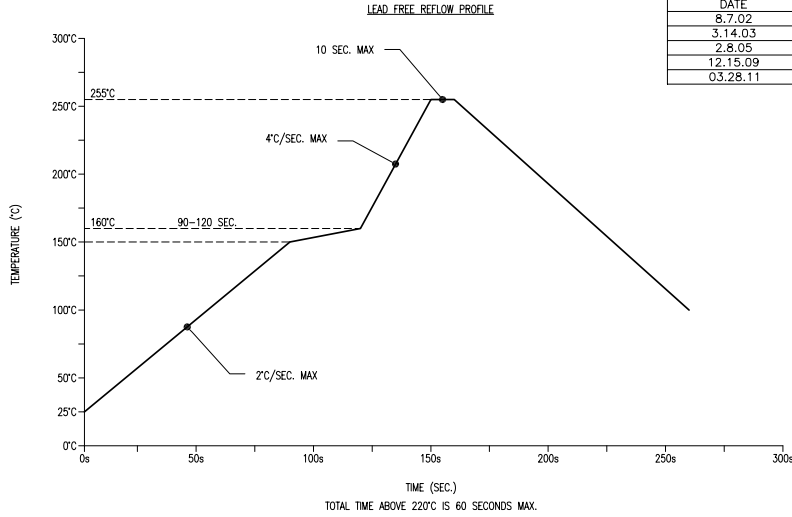
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DATE: 03.28.11	DRAWN BY: AB
PAGE: 1 OF 2	CHKD BY: JD
SCALE: NTS	APRVD BY: JD
UNIT: mm [INCH]	

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