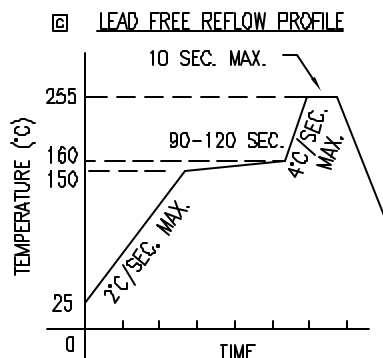
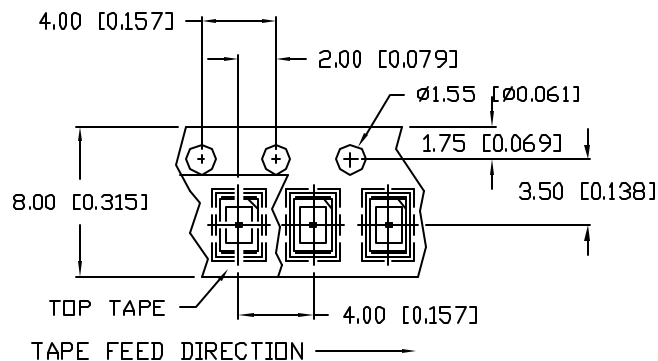
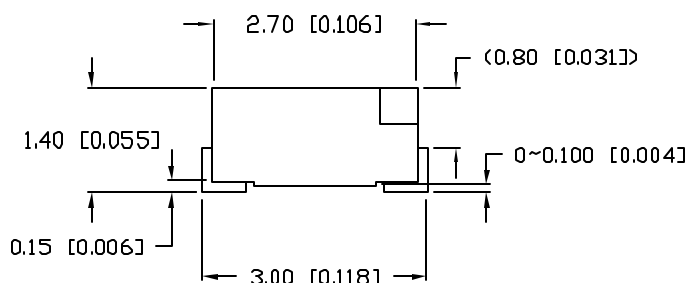
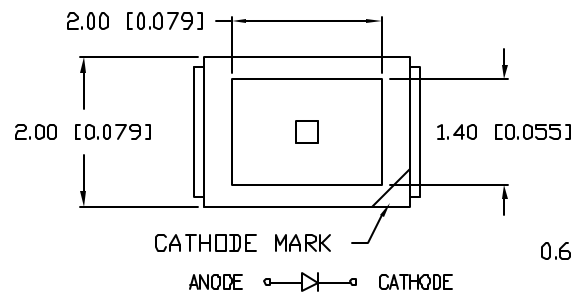


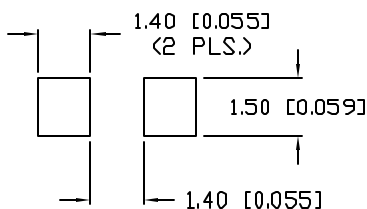
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CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT

PART NUMBER
SML-LX23UWC-TRREV.
C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10898. & #10BRDR.	8.7.02
B	E.C.N. #10967.	3.14.03
C	E.C.N. #11148.	2.8.05

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			550 (WHITE)		nm	
FORWARD VOLTAGE	V_f		3.5	4.0	V	$I_f=20\text{mA}$
REVERSE VOLTAGE	V_r	5			V	$I_r=10\mu\text{A}$
AXIAL INTENSITY(*1)	I_v		150		mcd	$I_f=20\text{mA}$
CHROMATICITY	X		0.31			$I_f=20\text{mA}$
COORDINATES(*2)	Y		0.32			$I_f=20\text{mA}$
VIEWING ANGLE			120		2x theta	
EMITTED COLOR:			WHITE			
EPOXY LENS FINISH:			WATER CLEAR			

*1. AXIAL INTENSITY TESTING CONDITION: 550nm WAVELENGTH.

*2. THE ICI STANDARD COLORIMETRIC SYSTEM.

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
PULSE FORWARD CURRENT	I_p	100*	mA
STEADY CURRENT	I_f	30	mA
POWER DISSIPATION	P_D	120	mW
OPERATING TEMP.	T_{OPR}	-30 TO +80	°C
STORAGE TEMP.	T_{STG}	-40 TO +100	°C

*DUTY 1/10 PULSE WIDTH 10ms

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

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

REV.
CPART NUMBER
SML-LX23UWC-TR

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

CONFIDENTIAL INFORMATION
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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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