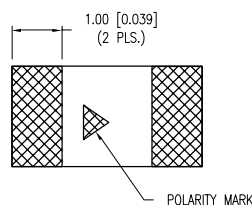
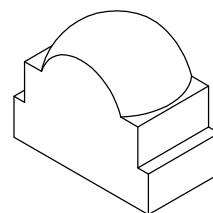
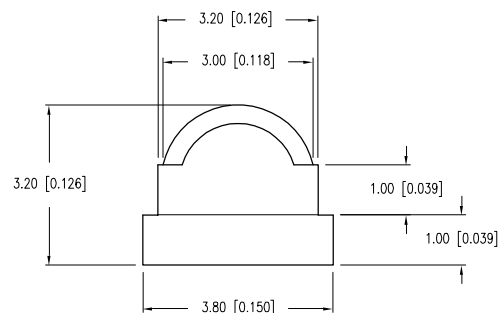
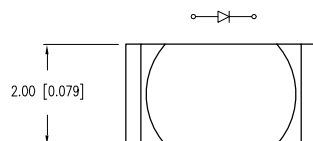


PART NUMBER	SML-LXL238USBC-TR	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
03.14.03	E.C.N. #11967.		A
05.25.10	E.C.N. #11508.		B



POLARITY MARK

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		3.5	4.0	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r = 100\mu\text{A}$
AXIAL INTENSITY		150		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE X		60		2x theta	
VIEWING ANGLE Y		35		2x theta	
EMITTED COLOR:	BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	160	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM 25°C	-1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

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

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

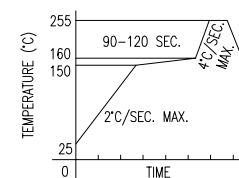
B1A CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 3 STANDARDS

NOTES:

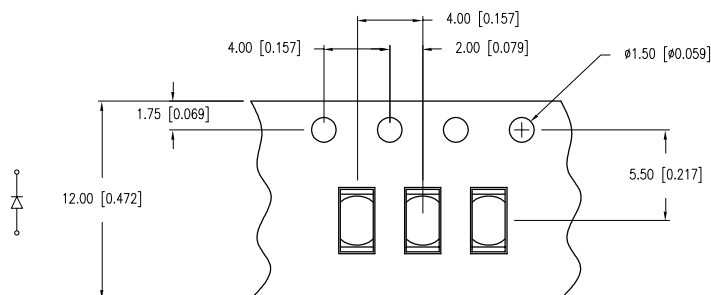
1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

LEAD FREE REFLOW PROFILE

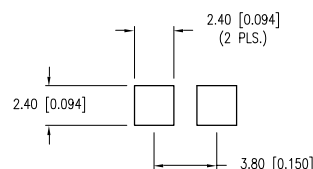
10 SEC. MAX.

TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

TAPE SPEC



RECOMMENDED SOLDER PAD LAYOUT



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X = \pm 1$ (± 0.039), $X.X = \pm 0.5$ (± 0.020), $X.XX = \pm 0.25$ (± 0.010), $X.XXX = \pm 0.127$ (± 0.005). LEAD SIZE = ± 0.05 (± 0.002), LEAD LENGTH = ± 0.75 (± 0.030). MIN = $\frac{+1\text{DECIMAL PRECISION}}{-0.00}$ MAX = $\frac{+0.00}{-1\text{DECIMAL PRECISION}}$



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3.8mm x 2.0mm SMT LED, 470nm ULTRA SUPER BLUE LED, WATER CLEAR DOME LENS.

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

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DATE: 11.21.02	DRAWN BY: CT
PAGE: 1 OF 1	CHKD BY: SS
SCALE: N/A	APRVD BY: JD
UNIT: mm [INCH]	(P)