

PART NUMBER	SML-LX0402UPGC-TR	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
3.14.03	E.C.N. #10967		A
8.10.04	E.C.N. #11157		B
12.03.04	E.C.N. #11148		C
3.05.09	E.C.N. #11508		D
9.05.16	ECN-Lumex20160008		E

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		515		nm	$I_f=20\text{mA}$
FORWARD VOLTAGE		3.3	4.0	V_f	$I_f=20\text{mA}$
REVERSE VOLTAGE			5.0	V_r	$I_r=50\mu\text{A}$
B LUMINOUS INTENSITY		450		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		120		2 theta1/2	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C PERCHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
FORWARD CURRENT	25	mA
POWER DISSIPATION	102.5	mW
B OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

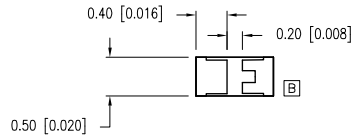
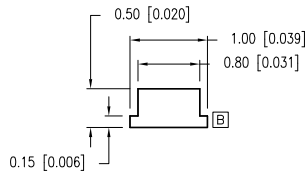
* $T < 10\mu\text{s}$

NOTES:

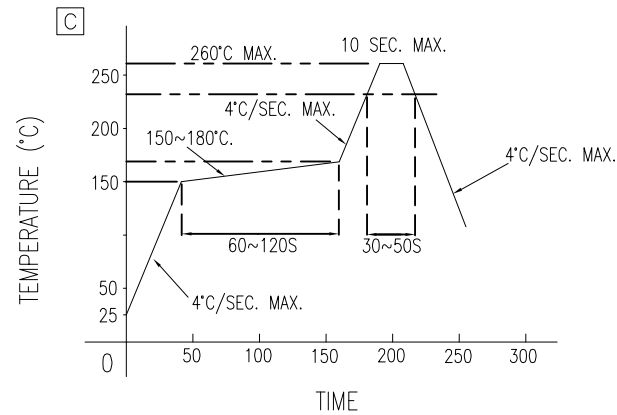
- PARTS PACKAGED IN CONDUCTIVE COVER AND CARRIER TAPE.
- THE CATHODE IS ORIENTATED TOWARDS THE TAPE SPROCKET HOLE.

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

D CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 3 STANDARDS **A**

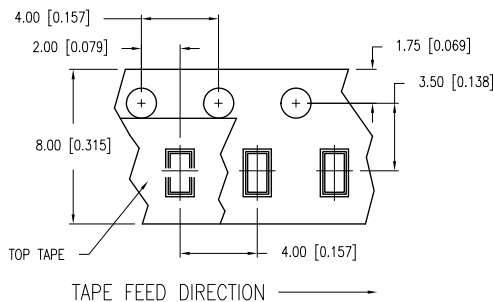
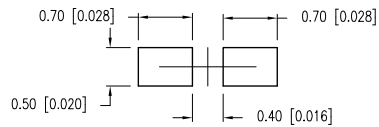


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



*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.= +0.00
-0.00 -DECIMAL PRECISION



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1.0mm X 0.5mm SURFACE MOUNT LED, 525nm ULTRA PURE GREEN, WATER CLEAR LENS, TAPE AND REEL.

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

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DATE:	09.05.16	DRAWN BY:	E.C.
PAGE:	1 OF 1	CHKD BY:	G.Y.
SCALE:	N/A	APRVD BY:	Ray
UNIT:	mm [INCH]		