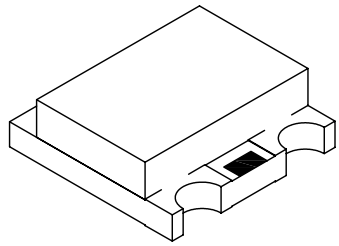
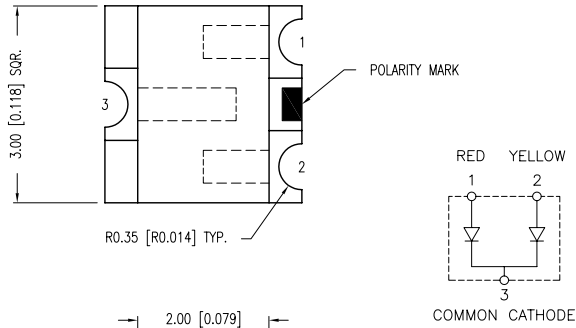
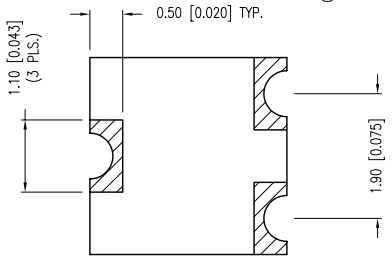
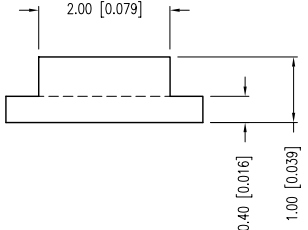


PART NUMBER	SML-LX151YC-RP-TR	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.	
3.14.03	E.C.N. #10967.	A	
07.03.03	E.C.N. #11010.	B	
11.30.05	E.C.N. #11148.	C	
11.28.06	E.C.N. #11361.	D	
05.22.08	E.C.N. #11501.	E	



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$

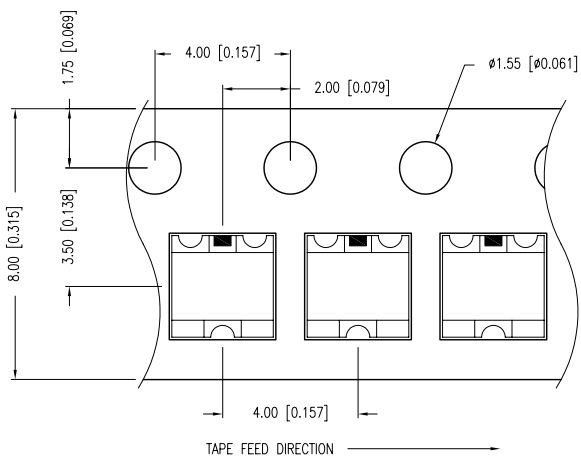
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635 (RED)		nm	
		585 (YELLOW)		nm	
FORWARD VOLTAGE (R/Y)		2.0/2.1	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		10		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		140		$2x$ theta	
EMITTED COLOR:	RED/YELLOW				
EPOXY LENS FINISH:	WATER CLEAR LENS				



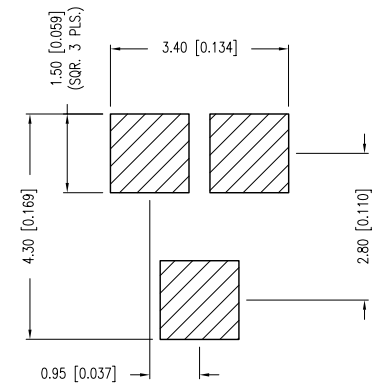
[D] LIMITS OF SAFE OPERATION AT 25°C

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

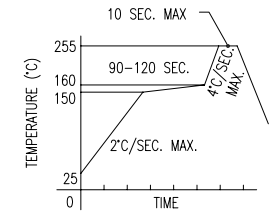
* $t < 10\mu\text{s}$



RECOMMENDED SOLDER PAD LAYOUT



[C] LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

[E] [A] CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 3 STANDARDS

NOTES:
1. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

*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 -DECIMAL PRECISION UNCONTROLLED DOCUMENT

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SOT-23 REPLACEMENT, SMT LED, 635nm RED/585nm YELLOW BICOLOR LED, WATER CLEAR, REVERSE POLARITY.

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

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DATE:	11.28.06	DRAWN BY:	JC
PAGE:	1 OF 1	CHKD BY:	--
SCALE:		APRVD BY:	--
UNIT:	mm [INCH]		