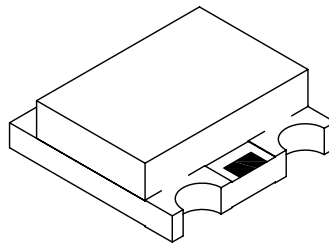
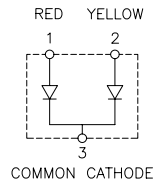
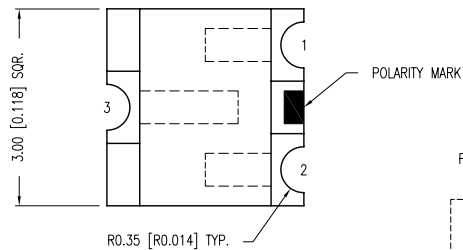


PART NUMBER	SML-LX15IYC-RP-TR	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
3.14.03	E.C.N. #10967.		A
07.03.03	E.C.N. #11010.		B
11.30.05	E.C.N. #11148.		C
11.28.06	E.C.N. #11361.		D
05.22.08	E.C.N. #11501.		E



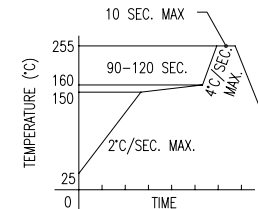
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_F=20\text{mA}$					
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635 (RED)		nm	
		585 (YELLOW)		nm	
FORWARD VOLTAGE (R/Y)		2.0/2.1	2.5	V_F	
REVERSE VOLTAGE	5.0			V_R	$I_F=100\mu\text{A}$
AXIAL INTENSITY		10		mcd	$I_F=20\text{mA}$
VIEWING 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

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

[C] LEAD FREE REFLOW PROFILE



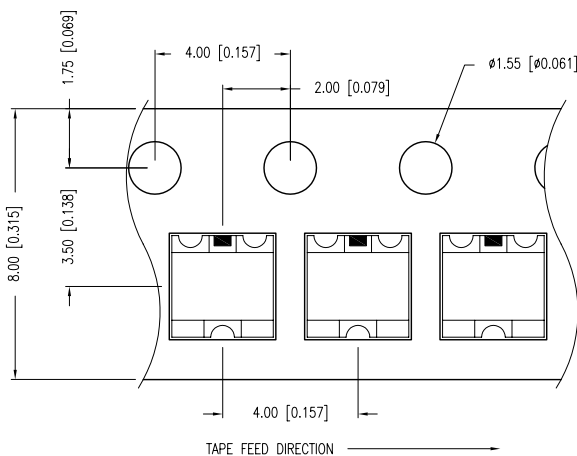
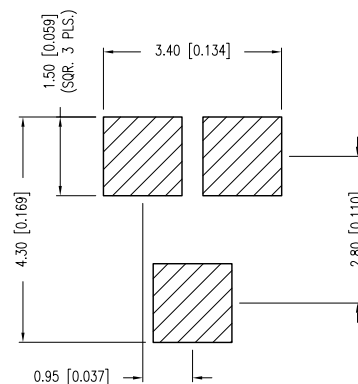
TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

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

NOTES:

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

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 -DECIMAL PRECISION