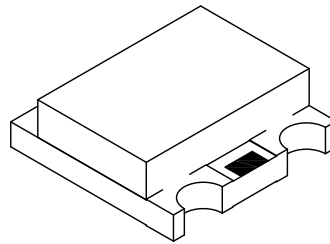
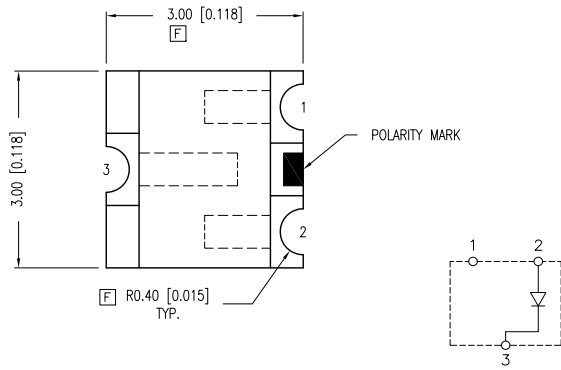
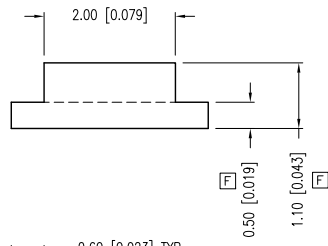


PART NUMBER	SML-LX15SRC-TR	REV.	F
DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.	
3.14.03	E.C.N. #10967.	A	
07.03.03	E.C.N. #11010.	B	
11.30.05	E.C.N. #11148.	C	
11.28.06	E.C.N. #11361.	D	
05.22.08	E.C.N. #11501.	E	
05.08.13	E.C.N. #11860.	F	



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

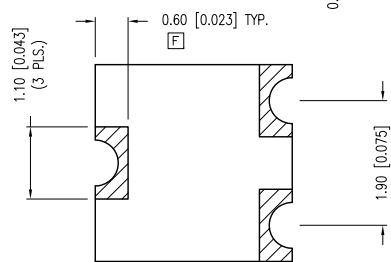
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660		nm	
FORWARD VOLTAGE	1.7	2.0	2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=10\mu\text{A}$
AXIAL INTENSITY	3	13	20	mcd	$I_f=20\text{mA}$
VIEWING ANGLE		140		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR LENS				



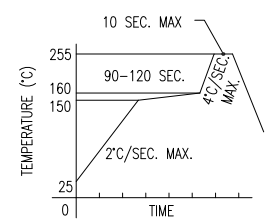
**F** **D** LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	125	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	75	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +80	°C
STORAGE TEMP.	-40 TO +85	°C

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

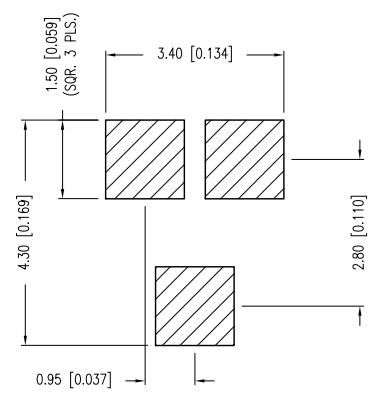


**C** LEAD FREE REFLOW PROFILE



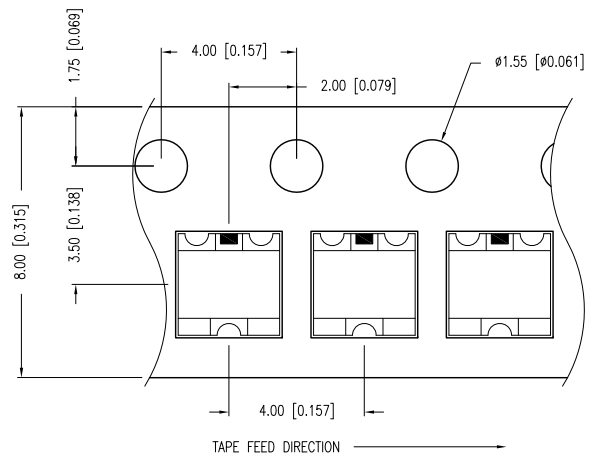
TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



**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 -0.00 DECIMAL PRECISION UNCONTROLLED DOCUMENT

**LUMEX**  
Creating LED and LCD Solutions Together™

290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
FAX: +1.847.359.6538  
WEB: WWW.LUMEX.COM

SOT-23 REPLACEMENT, SURFACE MOUNT LED, 660nm SUPER RED LED, WATER CLEAR LENS, TAPE AND REEL.	DATE: 11.28.06	DRAWN BY: JC
**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**	PAGE: 1 OF 1	CHKD BY: --
CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	SCALE: NTS	APRVD BY: --
	UNIT: mm [INCH]	Ⓟ