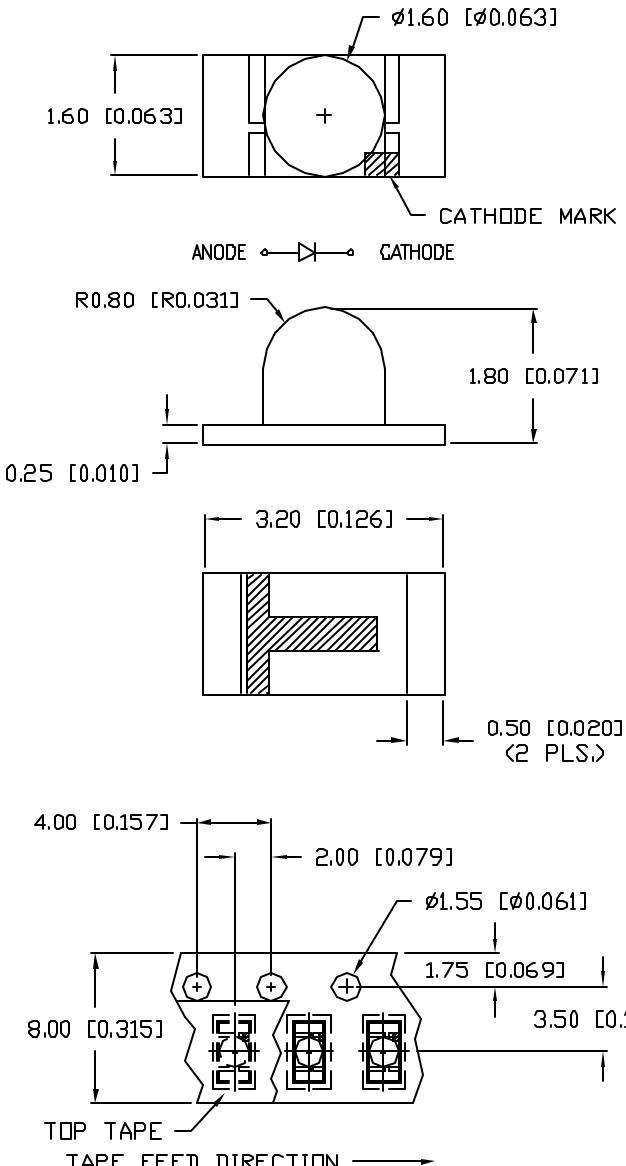


## UNCONTROLLED DOCUMENT



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

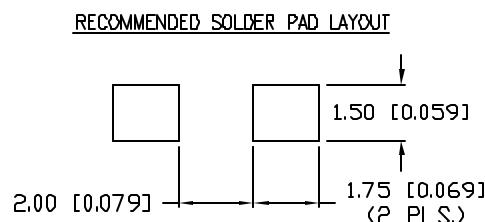
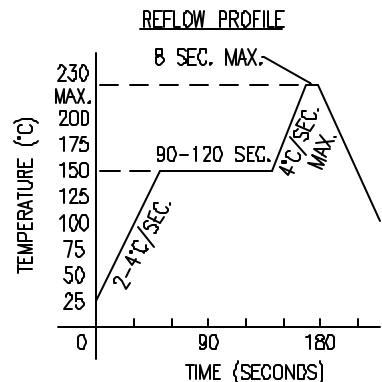
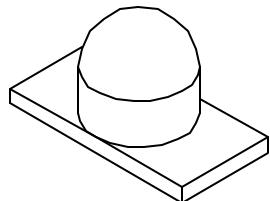
REV.

A

PART NUMBER

SML-LXL1307SRC-TR

3.2mm x 1.6mm PCB SURFACE MOUNT LED,  
660nm SUPER RED LED,  
WATER CLEAR DOME LENS, TAPE AND REEL



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$				
PARAMETER	MIN	TYP	MAX	UNITS
PEAK WAVELENGTH	660			nm
FORWARD VOLTAGE		1.7	2.2	$V_f$
REVERSE VOLTAGE	4.0			$V_r$
AXIAL INTENSITY	300			mcd
VIEWING ANGLE	50			$2\pi \text{ theta}$
EMITTED COLOR:	RED			
EPOXY LENS FINISH:	WATER CLEAR			

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM $25^\circ\text{C}$	-1.6	$\text{mW}/^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	°C

\*  $\leq 10\mu\text{s}$ 

## NOTES:

1. 2,000 PIECES PER REEL.
2. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

## CAUTION: MOISTURE SENSITIVE DEVICE

1. SHELF LIFE IN SEALED BAG: 12 MONTHS AT  $<40^\circ\text{C}$  AND  $<90\%$  RELATIVE HUMIDITY (RH).
2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE MOVED WITHIN 48 HOURS OR STORED AT  $<30^\circ\text{C}$  RH.

## UNCONTROLLED DOCUMENT

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RELIABILITY NOTE  
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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