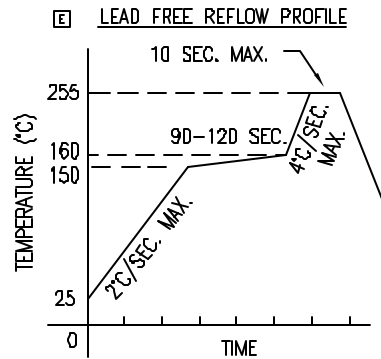
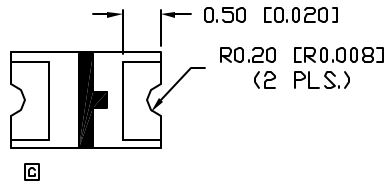
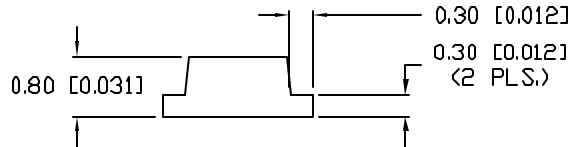
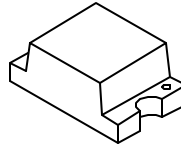
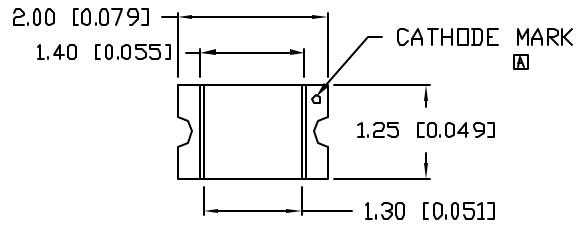


UNCONTROLLED DOCUMENT

PART NUMBER  
SML-LXT0805IW-TR

REV.  
E



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10567.	12.8.99
B	E.C.N. #10695.	1.8.01
C	E.C.N. #10814.	2.25.02
D	E.C.N. #10967.	3.22.04
E	E.C.N. #11148.	12.03.04

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

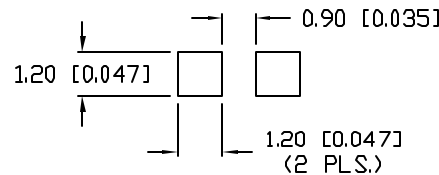
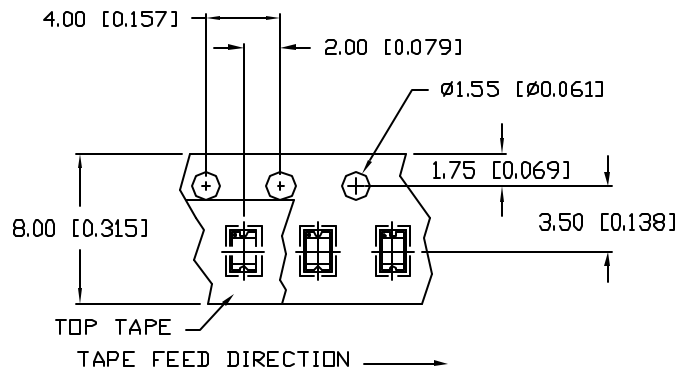
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE		2.0	2.5	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY	4	11		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		140		$2x$ theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	50	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-25 TO +80	°C
STORAGE TEMP.	-30 TO +85	°C

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

RECOMMENDED SOLDER PAD LAYOUT



NOTES:

- 4K PER REEL.
- CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

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= +DECIMAL PRECISION -0.00, MAX= +0.00 -DECIMAL PRECISION

REV.	PART NUMBER
E	SML-LXT0805IW-TR
2.0mm x 1.25mm THIN PCB SURFACE MOUNT, 635nm RED LED, MILKY WHITE DIFFUSED LENS, TAPE AND REEL.	

**CONFIDENTIAL INFORMATION**  
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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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DATE: 2.17.99		PAGE: 1 OF 1
SCALE: N/A		