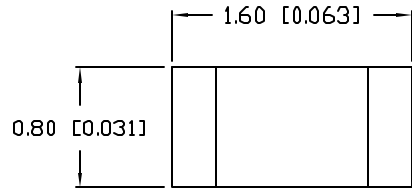


UNCONTROLLED DOCUMENT

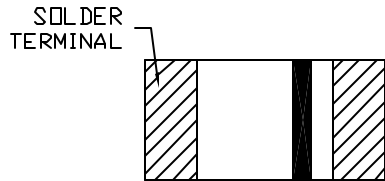
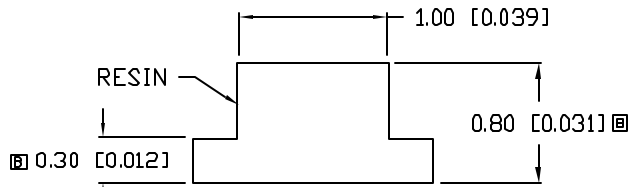
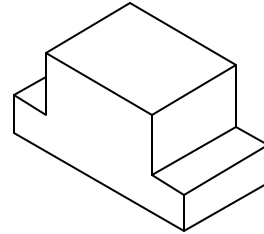
PART NUMBER  
SML-LX0603UWD-TR

REV.  
B

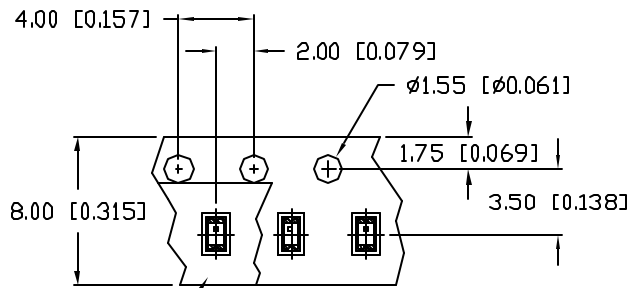


ANODE CATHODE

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

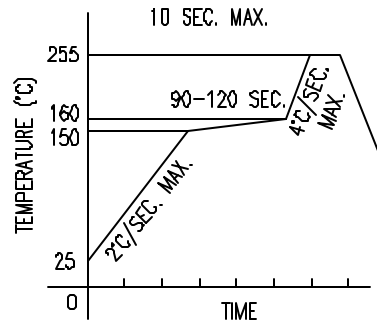


0.35 [0.014]  
(2 PLS.)



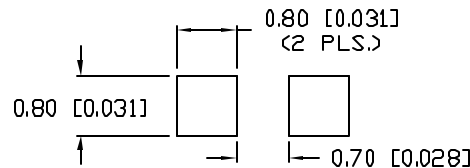
TOP TAPE  
TAPE FEED DIRECTION →

LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	12.06.04
B	E.C.N. #11456.	12.03.07

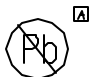
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			-		nm	
FORWARD VOLTAGE	$V_f$		3.5	4.0	V	$I_f=20\text{mA}$
REVERSE VOLTAGE	$V_r$	5			V	$I_f=10\mu\text{A}$
AXIAL INTENSITY(*1)	$I_v$		160		mcd	$I_f=20\text{mA}$
CHROMATICITY	X		0.3			$I_f=20\text{mA}$
COORDINATES(*2)	Y		0.3			$I_f=20\text{mA}$
VIEWING ANGLE			140		2x theta	
EMITTED COLOR:	WHITE					
EPOXY LENS FINISH:	YELLOW DIFFUSED					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
PULSE FORWARD CURRENT	$I_p$	80	mA
STEADY CURRENT	$I_f$	30	mA
POWER DISSIPATION	$P_D$	78	mW
OPERATING TEMP.	$T_{OPR}$	-30 TO +80	°C
STORAGE TEMP.	$T_{STG}$	-40 TO +85	°C
SOLDERING TEMP.		+260	°C
2.0mm FROM BODY			3 SEC. MAX
20			

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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. B PART NUMBER SML-LX0603UWD-TR

1.6mm x 0.8mm PCB CHIP, SURFACE MOUNT LED,  
ULTRA WHITE LED, YELLOW DIFFUSED.

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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SCALE: N/A