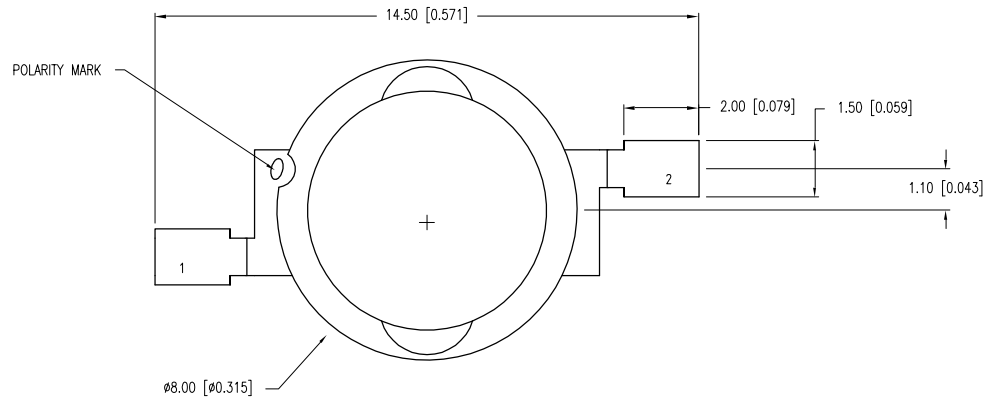


PART NUMBER	SML-LXL8047UWC-TR3	REV.	
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
06.15.10	E.C.N. #: 11647 & REDRAWN		A

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=700\text{mA}$ 

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH				nm	
FORWARD VOLTAGE		4.6	5.2	$V_f$	$I_f = 700\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_r = 100\mu\text{A}$
AXIAL INTENSITY	120	160	210	lm	$I_f = 700\text{mA}$
COLOR TEMP	5310	6000	7040	K	
VIEWING ANGLE		100		$2\times$ theta	
EMITTED COLOR:	WHITE				
EPOXY LENS FINISH:	WATER CLEAR				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1000	mA
STEADY CURRENT	700	mA
LED JUNCTION TEMPERATURE	130	$^\circ\text{C}$
DERATE FROM $25^\circ\text{C}$	-1.2	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +100	$^\circ\text{C}$

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

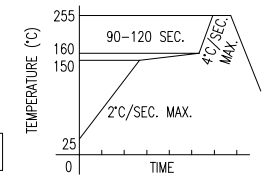
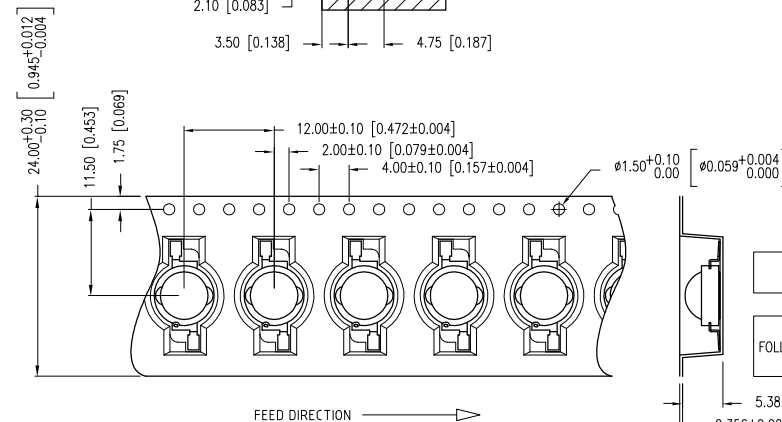
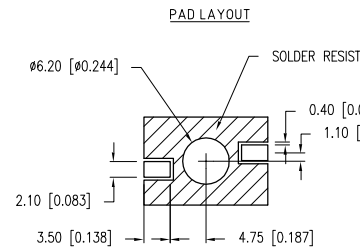
## [A] NOTE:

- WE RECOMMEND THAT THE DEVICES MUST BE BAKED BEFORE SOLDERING IF THEY ARE REMOVED FROM THE ORIGINAL PACKAGE, AND ARE EXPOSED TO ENVIRONMENTAL CONDITIONS FOR LONGER THAN THE DURATIONS; (UNIT: DAYS) DEFINED IN THE TABLE BELOW.
- RECOMMENDED BAKING CONDITIONS ARE 24 HOURS AT  $80^\circ\text{C}$

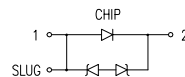
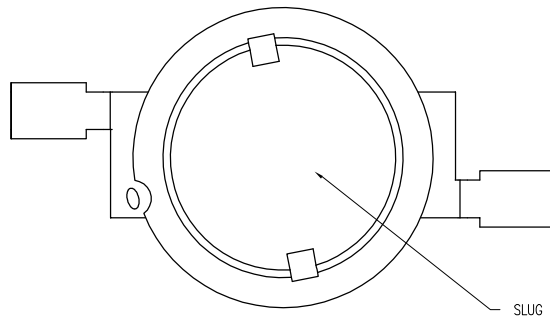
TEMPERATURE	MAXIMUM PERCENT RELATIVE HUMIDITY						
	30%	40%	50%	60%	70%	80%	90%
$30^\circ\text{C}$	9	5	4	3	1	1	1
$25^\circ\text{C}$	12	7	5	4	2	1	1
$20^\circ\text{C}$	17	9	7	6	2	2	1

## LEAD FREE REFLOW PROFILE

10 SEC. MAX.

TOTAL TIME ABOVE  $220^\circ\text{C}$  IS 60 SECONDS MAX.CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDSCAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

FEED DIRECTION →

5.38±0.10 [0.212±0.004]  
0.356±0.02 [0.014±0.001]\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE:  $x=\pm 1$  ( $\pm 0.039$ ),  $x.x=\pm 0.5$  ( $\pm 0.020$ ),  $x.xx=\pm 0.25$  ( $\pm 0.010$ ),  $x.xxx=\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ). MIN.= $^{+0.00}_{-0.00}$  DECIMAL PRECISION MAX.= $^{+0.00}_{-0.00}$  DECIMAL PRECISION

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8mm ROUND TOP DOME SMT HI POWER LED COOL WHITE 3W.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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DATE: 03.12.10	DRAWN BY: JN
PAGE: 1 OF 1	CHKD BY: SS
SCALE: N/A	APRVD BY: KF
UNIT: mm [INCH]	(R)