SML-LXL8047MWC-TR3 UNCONTROLLED DOCUMENT PART NUMBER RFV. E.C.N. NUMBER AND REVISION COMMENTS REV. DATE 06.15.10 E.C.N. #: 11647 & REDRAWN Α ELECTRO-OPTICAL CHARACTERISTICS TA = 25°C $I_f = 700 \text{mA}$ PARAMETER MAX TEST COND TYP UNITS - 14.50 [0.571] PEAK WAVELENGTH FORWARD VOLTAGE 4.6 5.2 ٧f $I_f = 700 mA$ REVERSE VOLTAGE 5.0 $I_r = 100 \mu A$ ٧r POLARITY MARK AXIAL INTENSITY 100 140 180 $l_f = 700 \text{mA}$ lm COLOR TEMP 2580 3000 3710 K 2.00 [0.079] _ 1.50 [0.059] VIEWING ANGLE 100 2x theta EMITTED COLOR: WHITE EPOXY LENS FINISH: WATER CLEAR Y) 2 1.10 [0.043] LIMITS OF SAFE OPERATION AT 25°C PARAMETER MAX UNITS PEAK FORWARD CURRENT* 1000 mΑ STEADY CURRENT 700 mΑ LED JUNCTION TEMPERATURE 130 °C. DERATE FROM 25°C -1.2mW/°C OPERATING, STORAGE TEMP -40 TO +100 .C * t<10µS Ø8.00 [Ø0.315] A NOTE: 1. WE RECOMMEND THAT THE DEVICES MUST BE BAKED BEFORE SOLDERING IF 9.60 [0.378] 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. R3.20 [R0.126] 2. RECOMMENDED BAKING CONDITIONS ARE 24 HOURS AT 80°C PAD LAYOUT MAXIMUM PERCENT RELATIVE HUMIDITY 4.70 [0.185] TEMPERATURE SOLDER RESIST 30% 40% 50% 70% 80% 90% 60% Ø6.20 [Ø0.244] 2.50 [0.098] 30°C 0.20 [0.008] 25°C 12 2 0.40 [0.016] 20°C 17 9 1.10 [0.043] 6 2 2 0.20 [0.008] LEAD FREE REFLOW PROFILE 10 SEC. MAX. 2.10 [0.083] 24.00⁺0.30 0.945⁺0.012 255 3.50 [0.138] 4.75 [0.187] 9 90-120 SEC. 160 EMPERATURE 150 [0.069][0.453]12.00±0.10 [0.472±0.004] 2°C/SEC. MAX. 1.75 - 2.00±0.10 [0.079±0.004] 11.50 + 4.00±0.10 [0.157±0.004] TIME 0 0 0 Ò TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX. CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 3 STANDARDS CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES SLUG WHEN WORKING WITH THIS PART. 5.38±0.10 [0.212±0.004] FEED DIRECTION -0.356±0.02 [0.014±0.001]

*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 -DECIMAL PRECISION



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SLUG -

8mm ROUND TOP DOME SMT HI POWER LED WARM 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]		P	