

Excellent Integrated System Limited

Stocking Distributor

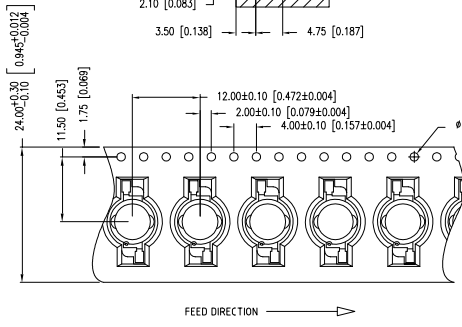
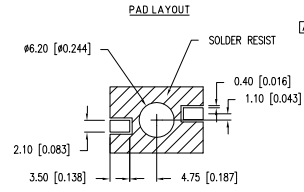
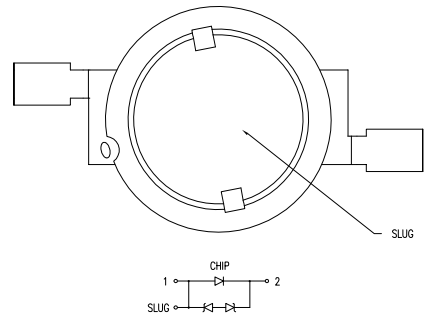
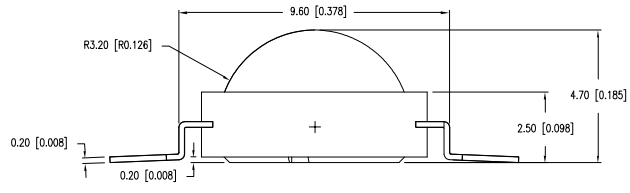
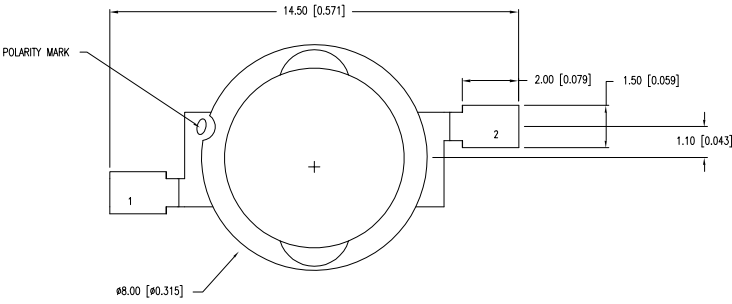
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Lumex, Inc.](#)
[SML-LXL8047SICTR/2](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

UNCONTROLLED DOCUMENT

PART NUMBER SML-LXL8047SICTR/2 REV.



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=500\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
DOM. WAVELENGTH		635		nm	
FORWARD VOLTAGE	2.0	2.7	3.3	V_f	$I_f = 500\text{mA}$
REVERSE VOLTAGE	5.0			V_r	$I_f = 100\mu\text{A}$
AXIAL INTENSITY	35	50	60	lm	$I_f = 500\text{mA}$
VIEWING ANGLE			100	$2 \times \theta$	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

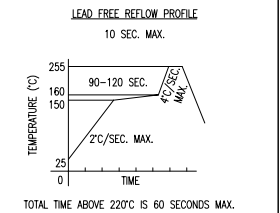
LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	700	mA
STEADY CURRENT	500	mA
LED JUNCTION TEMPERATURE	110	$^{\circ}\text{C}$
THERMAL RESISTANCE	12	$^{\circ}\text{C}/\text{W}$
OPERATING, STORAGE TEMP.	-40 TO +100	$^{\circ}\text{C}$

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

[A] NOTE:
 1. 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.
 2. RECOMMENDED BAKING CONDITIONS ARE 24 HOURS AT 80°C

TEMPERATURE	MAXIMUM PERCENT RELATIVE HUMIDITY						
	30%	40%	50%	60%	70%	80%	90%
30°C	9	5	4	3	1	1	1
25°C	12	7	5	4	2	1	1
20°C	17	9	7	6	2	2	1



CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 3 STANDARDS
 CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES WHEN WORKING WITH THIS PART.

*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 0.00 MAX= +0.00 -DECIMAL PRECISION



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8mm ROUND TOP DOME SMT HI POWER LED RED 2W.
 THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT
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DATE: 06.28.10 DRAWN BY: JN
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 SCALE: N/A APRVD BY: KF
 UNIT: mm [INCH]