

Excellent Integrated System Limited

Stocking Distributor

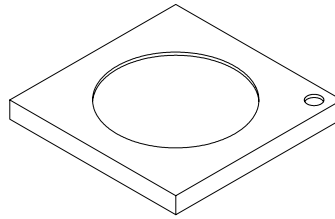
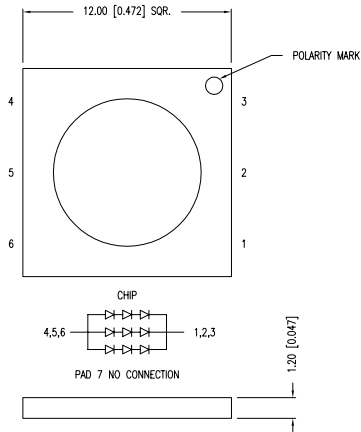
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Lumex, Inc.](#)

[SML-LX4747UWC-TR10](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=1000\text{mA}$					
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
FORWARD VOLTAGE	V_f	9.3	10.4	11.5	V
REVERSE VOLTAGE	V_r	15			V
LUMINOUS FLUX	I_v	490	600		lm
COLOR TEMPERATURE		5310	6000	7040	K
VIEWING ANGLE			120		2x theta
EMITTED COLOR:	COOL WHITE				
EPOXY LENS FINISH:	WATER CLEAR LENS				

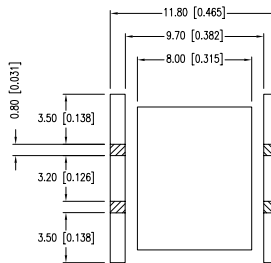
LIMITS OF SAFE OPERATION AT 25°C		
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT	1200	mA
STEADY CURRENT	1000	mA
POWER DISSIPATION	11.5	mW
OPERATING TEMP.	-40 TO +90	$^{\circ}\text{C}$
STORAGE TEMP.	-40 TO +100	$^{\circ}\text{C}$

THERMAL PARAMETERS		
PARAMETER	MAX	UNITS
JUNCTION TEMPERATURE	110	$^{\circ}\text{C}$
THERMAL RESISTANCE (JUNCTION/SOLDER)	3.5	$^{\circ}\text{C/W}$
TEMPERATURE COEFFICIENT OF V_f	-5.6	mV/ $^{\circ}\text{C}$

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 2 STANDARDS

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

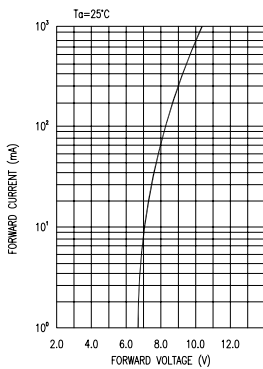
RECOMMENDED SOLDER PAD LAYOUT



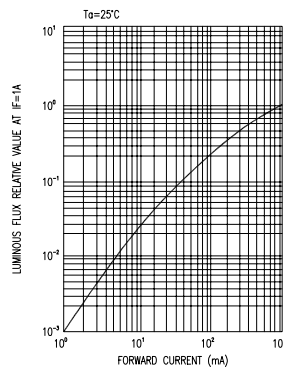
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LUMEX
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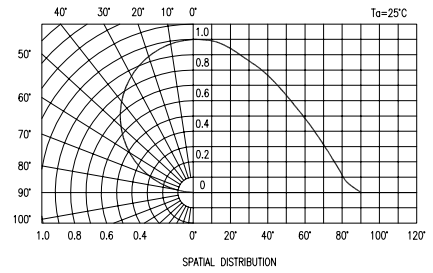
12mm x 12mm SURFACE MOUNT LED, COOL WHITE.	DATE: 02.04.11	DRAWN BY: AB
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.	PAGE: 1 OF 4	CHKD BY: KF
CONFIDENTIAL INFORMATION	SCALE:	APRVD BY: BC
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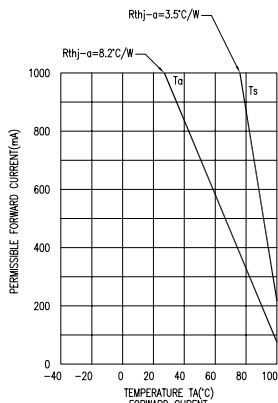
FORWARD CURRENT VS FORWARD VOLTAGE



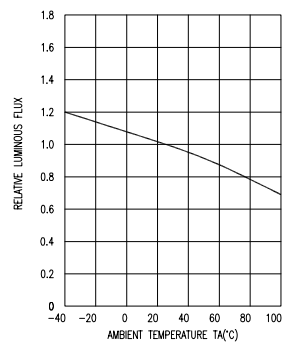
LUMINOUS FLUX VS FORWARD CURRENT



SPATIAL DISTRIBUTION



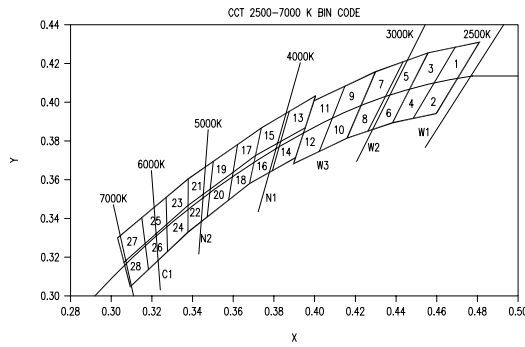
DERATING CURVE



LUMINOUS FLUX VS AMBIENT TEMPERATURE

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LUMEX Creating LED and LCD Solutions Together™	290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538 WEB: WWW.LUMEX.COM	12mm x 12mm SURFACE MOUNT LED, COOL WHITE. **THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.** CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	UNCONTROLLED DOCUMENT DATE: 02.04.11 DRAWN BY: AB PAGE: 2 OF 4 CHKD BY: KF SCALE: APRVD BY: BC UNIT: mm [INCH]
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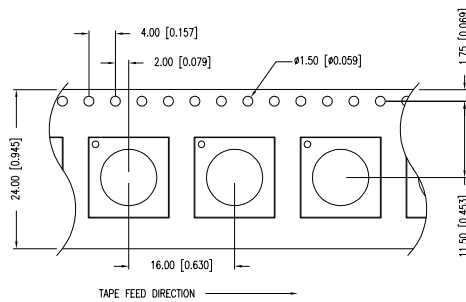
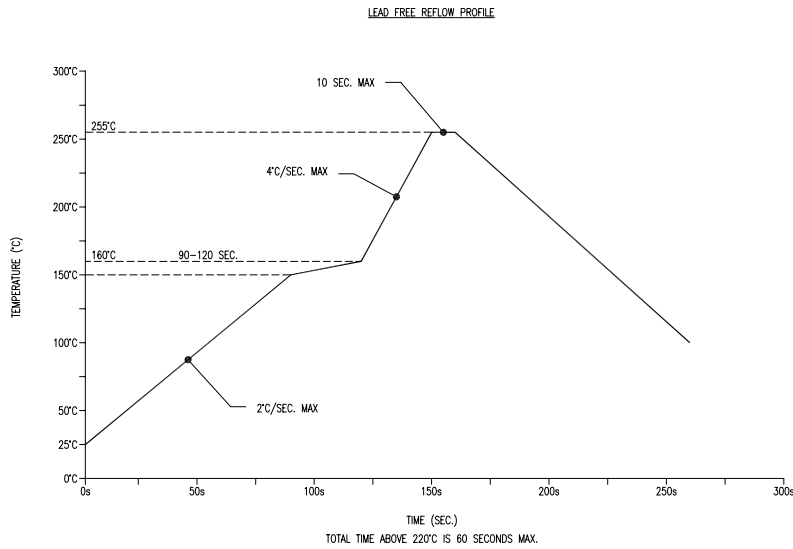
COLOR	GROUP	CHROMATICITY REGIONS	MIN.	TYP.	MAX.
WARM WHITE	W1	1,2,3,4	2580	2700	2870
	W2	5,6,7,8	2870	3000	3220
	W3	9,10,11,12	3220	3500	3710
WARM WHITE	N1	13,14,15,16	3710	4000	4260
	N2	17,18,19,20,21,22	4260	4700	5310
COOL WHITE	C1	23,24,25,26,27,28	5310	6000	7040

X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
1	0.4582 0.4099	6	0.4259 0.3853	11	0.3941 0.3848	16	0.3670 0.3578	21	0.3496 0.3702	26	0.3265 0.3371		
	0.4687 0.4289		0.4342 0.4028		0.3996 0.4015		0.3702 0.3722		0.3376 0.3616		0.3160 0.3274		
	0.4813 0.4319		0.4465 0.4071		0.4146 0.4089		0.3825 0.3798		0.3370 0.3472		0.3175 0.3139		
	0.4700 0.4126		0.4373 0.3893		0.4080 0.3916		0.3783 0.3646		0.3481 0.3557		0.3270 0.3230		
2	0.4483 0.3919	7	0.4221 0.3984	12	0.3889 0.3690	17	0.3736 0.3874	22	0.3481 0.3557	27	0.3144 0.3408		
	0.4582 0.4099		0.4299 0.4165		0.3941 0.3848		0.3616 0.3788		0.3370 0.3472		0.3028 0.3304		
	0.4700 0.4126		0.4430 0.4212		0.4080 0.3916		0.3592 0.3641		0.3364 0.3328		0.3055 0.3177		
	0.4593 0.3944		0.4342 0.4028		0.4017 0.3751		0.3703 0.3726		0.3466 0.3411		0.3160 0.3274		
3	0.4465 0.4071	8	0.4147 0.3814	13	0.3825 0.3798	18	0.3703 0.3726	23	0.3376 0.3616	28	0.3160 0.3274		
	0.4562 0.4260		0.4221 0.3984		0.3869 0.3959		0.3592 0.3641		0.3260 0.3512		0.3055 0.3177		
	0.4687 0.4289		0.4342 0.4028		0.4006 0.4044		0.3568 0.3495		0.3265 0.3371		0.3081 0.3049		
	0.4582 0.4099		0.4259 0.3853		0.3950 0.3875		0.3670 0.3578		0.3370 0.3472		0.3175 0.3139		
4	0.4373 0.3893	9	0.4080 0.3916	14	0.3783 0.3646	19	0.3616 0.3788	24	0.3370 0.3472				
	0.4465 0.4071		0.4146 0.4089		0.3825 0.3798		0.3496 0.3702		0.3265 0.3371				
	0.4582 0.4099		0.4299 0.4165		0.3950 0.3875		0.3481 0.3557		0.3270 0.3230				
	0.4483 0.3919		0.4221 0.3984		0.3898 0.3716		0.3592 0.3641		0.3364 0.3328				
5	0.4342 0.4028	10	0.4017 0.3751	15	0.3702 0.3722	20	0.3592 0.3641	25	0.3260 0.3512				
	0.4430 0.4212		0.4080 0.3916		0.3736 0.3874		0.3481 0.3557		0.3144 0.3408				
	0.4562 0.4260		0.4221 0.3984		0.3869 0.3958		0.3466 0.3411		0.3160 0.3274				
	0.4465 0.4071		0.4147 0.3814		0.3825 0.3798		0.3568 0.3495		0.3265 0.3371				

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