

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=1000\text{mA}$

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
FORWARD VOLTAGE	V_f	9.3	10.4	11.5	V	$I_f=1000\text{mA}$
REVERSE VOLTAGE	V_r	15			V	$I_f=10\mu\text{A}$
LUMINOUS FLUX	Φ_v	490	600		lm	$I_f=1000\text{mA}$
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

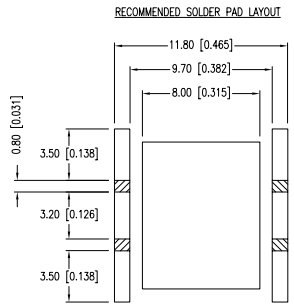
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT	1200	mA
STEADY CURRENT	1000	mA
POWER DISSIPATION	11.5	mW
OPERATING TEMP.	-40 TO +90	°C
STORAGE TEMP.	-40 TO +100	°C

THERMAL PARAMETERS

PARAMETER	MAX	UNITS
JUNCTION TEMPERATURE	110	°C
THERMAL RESISTANCE (JUNCTION/SOLDER)	3.5	°C/W
TEMPERATURE COEFFICIENT OF V_f	-5.6	mV/°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.



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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 UNCONTROLLED DOCUMENT

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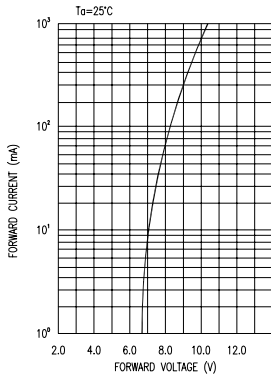
12mm x 12mm SURFACE MOUNT LED, COOL WHITE.

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

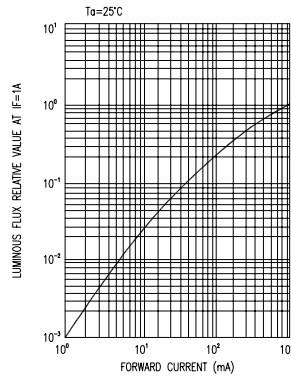
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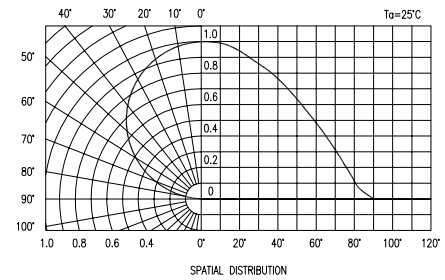
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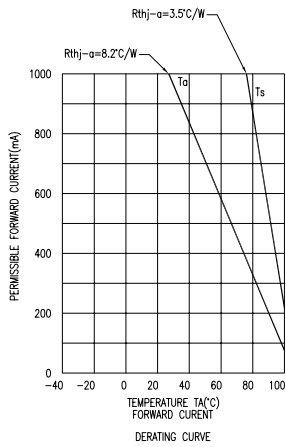
FORWARD CURRENT VS FORWARD VOLTAGE



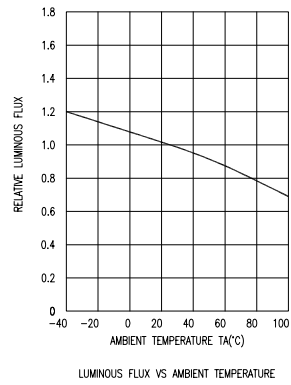
LUMINOUS FLUX VS FORWARD CURRENT



SPATIAL DISTRIBUTION



DERATING CURVE



LUMINOUS FLUX VS AMBIENT TEMPERATURE

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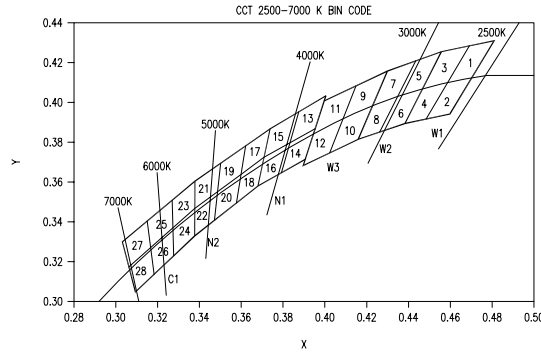
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COLOR	GROUP	CHROMATICITY REGIONS	MIN.	TYP.	MAX.
WARM WHITE	W1	1,2,3,4	2580	2700	2870
	W2	5,6,7,8	2870	3000	3220
	W3	9,10,11,12	3220	3500	3710
WARM WHITE	N1	13,14,15,16	3710	4000	4260
	N2	17,18,19,20,21,22	4260	4700	5310
COOL WHITE	C1	23,24,25,26,27,28	5310	6000	7040

	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
1	0.4582	0.4099	0.4259	0.3853	0.3941	0.3848	0.3670	0.3578	0.3496	0.3702	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	0.4146	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	0.4221	0.3984	0.3889	0.3690	0.3736	0.3874	0.3481	0.3557	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	0.4147	0.3814	0.3825	0.3798	0.3703	0.3726	0.3376	0.3616	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	0.4080	0.3916	0.3783	0.3646	0.3616	0.3788	0.3370	0.3472	0.3265	0.3371
	0.4465	0.4071	0.4146	0.4089	0.3825	0.3798	0.3496	0.3702	0.3265	0.3371	0.3055	0.3177
	0.4582	0.4099	0.4299	0.4165	0.3950	0.3875	0.3481	0.3557	0.3270	0.3230	0.3055	0.3177
	0.4483	0.3919	0.4221	0.3984	0.3898	0.3716	0.3592	0.3641	0.3364	0.3328	0.3160	0.3274
5	0.4342	0.4028	0.4017	0.3751	0.3702	0.3722	0.3592	0.3641	0.3260	0.3512	0.3144	0.3408
	0.4430	0.4212	0.4080	0.3916	0.3736	0.3874	0.3481	0.3557	0.3144	0.3408	0.3160	0.3274
	0.4562	0.4260	0.4221	0.3984	0.3869	0.3958	0.3466	0.3411	0.3160	0.3274	0.3160	0.3274
	0.4465	0.4071	0.4147	0.3814	0.3825	0.3798	0.3568	0.3495	0.3265	0.3371	0.3175	0.3139

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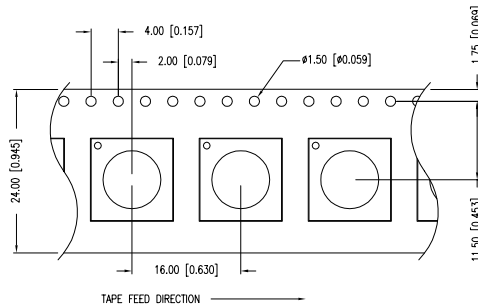
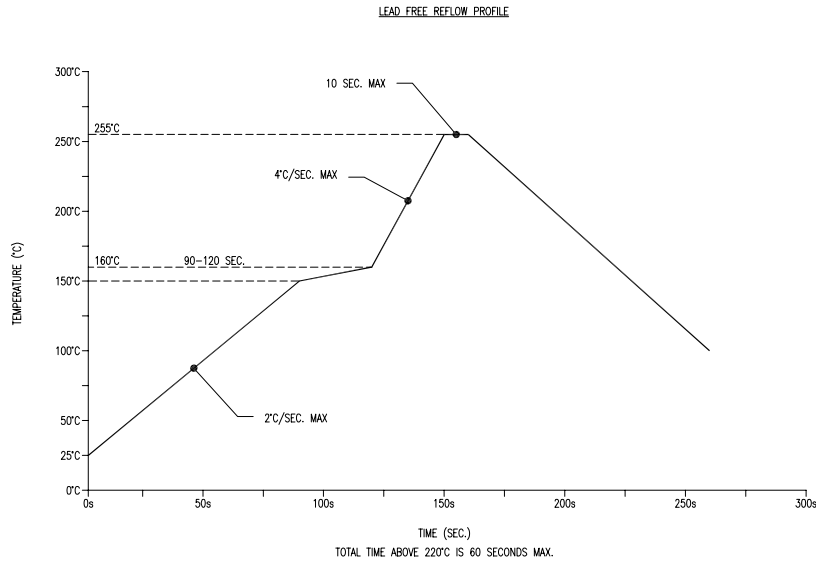
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