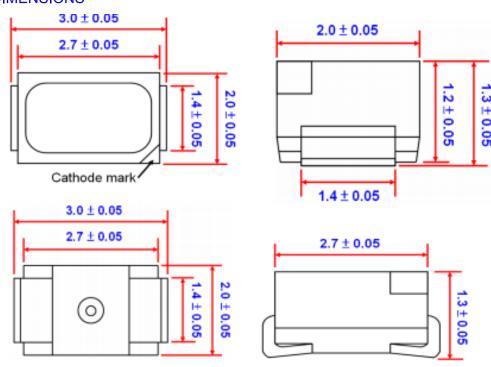


SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

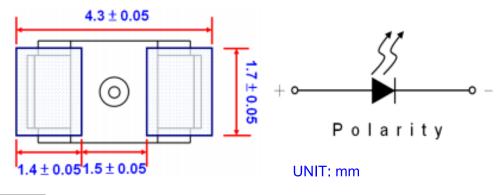
FEATURES

TOP VIEW WHITE
LED (3.0 x 2.0 x 1.3mm)
WHITE SMT PACKAGE
LEAD FRAME PACKAGE WITH INDIVIDUAL 2-PINS
GaN WITH YELLOW PHOSPHOR
WIDE VIEW ANGLE (X: 120°/Y: 120°)
IR REFLOW SOLDERING
ESD PROTECTION
Pb FREE

DIMENSIONS



Recommended soldering pad design

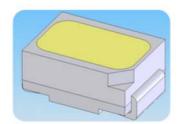




JKL PART NO.: ZSM-T3020-W



L. WENGSTROM		DRAWING NO.						
APPV'D BY	DATE 9/26/11	RELEASED DATE	6/14/07	REVISION DATE	9/26/11	REV. NO.	В	SHEET 1 OF 5



SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS (TA = 25° C) (LED die)

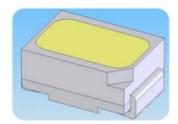
ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Forward Current	ΙF	30	mA
Pulse Forward Current*	I FP	100	mA
Reverse Voltage	V_{R}	5	V
Power Dissipation	P _D	110	mW
Operating Temperature	T _{opr}	- 30 ∼ + 85	°C
Storage Temperature	Tstg	- 40 ∼ +100	°C
Soldering Temperature	T _{sld}	Reflow Soldering: 260° C for 10 s Hand Soldering: 350° C for 3 sec	

^{*}IFP Conditions: Pulse Width \leq 10msec, and duty \leq 1/10

ELECTRICAL & OPTICAL OPERATING CHARACTERISTICS (TA = 25°C)

ITEM	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_{F}	IF = 20mA	2.9	3.5	Volt
Luminous Intensity	L _V	IF = 20mA	1400	2200	mcd
Color Coordinates	x, y	IF = 20mA	.262	.315	X
			.245	.315	у
Viewing Angle		IF = 20mA	120° x	120° y	Degrees

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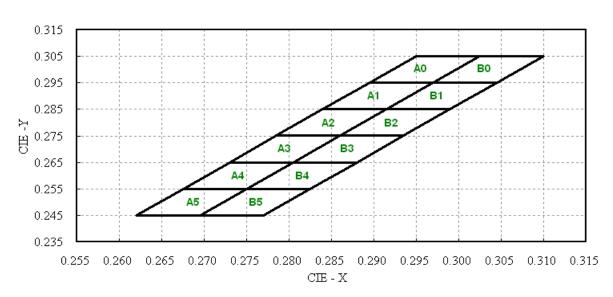


SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

	CIE-X	CIE-Y		CIE-X	CIE-Y		CIE-X	CIE-Y
	0.3075	0.3150		0.3025	0.3050		0.2970	0.2950
Aa	0.3025	0.3050	AO	0.2970	0.2950	A1	0.2915	0.2850
~	0.2950	0.3050	~~	0.2895	0.2950		0.2840	0.2850
	0.3000	0.3150		0.2950	0.3050		0.2895	0.2950
	0.2915	0.2850		0.2860	0.2750		0.2805	0.2650
A2	0.2860	0.2750	А3	0.2805	0.2650	A4	0.2750	0.2550
	0.2785	0.2750	~	0.2730	0.2650	В0	0.2675	0.2550
	0.2840	0.2850		0.2785	0.2750		0.2730	0.2650
	0.2750	0.2550	Ва	0.3150	0.3150		0.3100	0.3050
A5	0.2695	0.2450		0.3100	0.3050		0.3045	0.2950
~~	0.2620	0.2450		0.3025	0.3050		0.2970	0.2950
	0.2675	0.2550		0.3075	0.3150		0.3025	0.3050
	0.3045	0.2950		0.2990	0.2850		0.2935	0.2750
B1	0.2990	0.2850	B2	0.2935	0.2750	В3	0.2880	0.2650
	0.2915	0.2850	02	0.2860	0.2750	55	0.2805	0.2650
	0.2970	0.2950		0.2915	0.2850		0.2860	0.2750
	0.2880	0.2650		0.2825	0.2550			
B4	0.2825	0.2550	B5	0.2770	0.2450			
54	0.2750	0.2550	55	0.2695	0.2450			
	0.2805	0.2650		0.2750	0.2550			

BIN RANGE OF CHROMATICITY COORDINATES

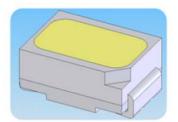
^{*}Color coordinate is derived from the CIE 1931 chromaticity.



L. WENGSTROM		DRAWING NO.	7014 T0000 14/					
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^{*}If color binning is required, only one color group is allowed for each chip within a reel.

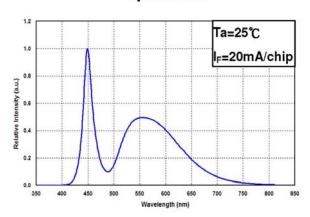
Chromaticity coordinate groups are measured with an accuracy of ±0.01.



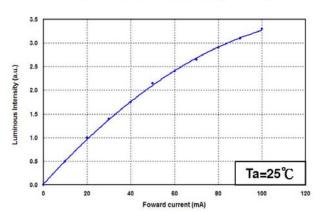
SURFACE MOUNT WHITE LED TOP VIEW 3.0 X 2.0 X 1.3mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

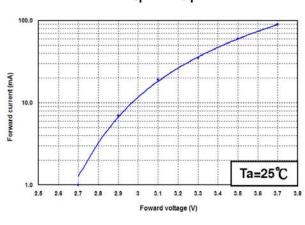
Spectrum



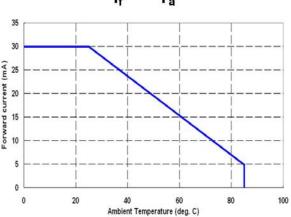
Luminous intensity $-I_F$



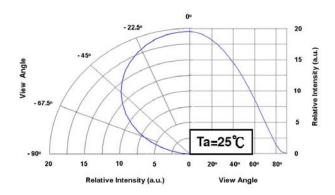
 $I_f - V_F$



 $I_f - T_a$



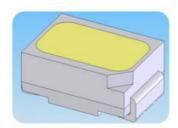
Radiation Pattern



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	■ COMPONENTS CORPORATION

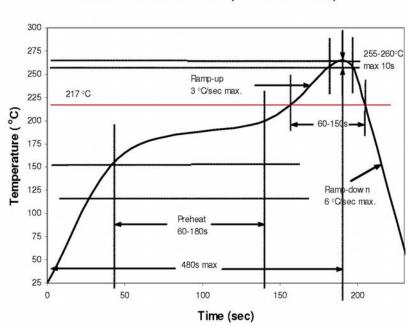
L. WENGSTROM DRA		DRAWING NO.	7014 T0000 144						
APPV'D BY	DATE	RELEASED		REVISION		REV.	SHEET		
L.R.	9/26/11	DATE	6/14/07	DATE	9/26/11	ио. В	4 of 5		



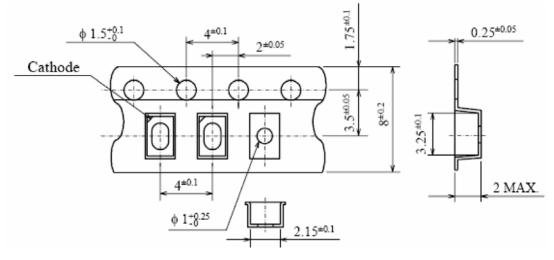


LEAD-FREE SOLDER





PACKAGING: 2500 pcs/REEL



NOTES:

- 1. STORE IN ORIGINAL MOISTURE PROOF PACKAGING.
- 2. PACKAGING SHOULD BE STORED AT 30°C OR LESS AND AT 60% RH OR LESS.
- 3. LED SHOULD BE SOLDERED WITHIN 168 HOURS AFTER OPENING.
- 4. LED'S ARE STATIC SENSITIVE DEVICES. DO NOT HANDLEWITHOUT APPROPRIATE STATIC PROTECTION.
- 5. CLEAN ONLY WITH ISOPROPYL ALCOHOL. DO NOT USE ULTRASONIC CLEANING.
- 6. CAUTION: DO NOT LOOK DIRECTLY INTO LIT LED. INJURY TO EYES CAN OCCUR.

DRAWN BY L. WENGSTROM		DRAWING NO.		ZSM	I-T302	:0-W	
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