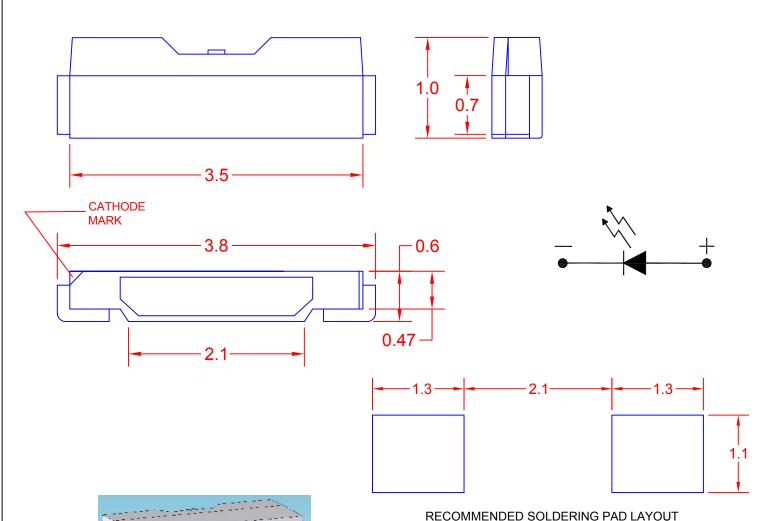


SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

FEATURES

SIDE VIEW WHITE
LED (3.8 x 1.0 x 0.6mm)
WHITE SMT PACKAGE
LEAD FRAME PACKAGE WITH INDIVIDUAL 2-PINS
GaN WITH YELLOW PHOSPHOR
WIDE VIEW ANGLE (X: 120°/Y: 120°)
IR REFLOW SOLDERING
Pb FREE



JKL PART NO.: ZSM-S3806-W



	DRAWN BY L. WENG		DRAWING NO.		ZSN	1-S380	6-W	
COMPONENTS CORPORATION	APPV'D BY L.R.	DATE 12/22/14	RELEASED DATE	6/14/07	REVISION DATE	12/22/14	REV. NO. E	SHEET 1 OF 5



SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

SPECIFICATIONS

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

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT				
Forward Current	Ι _F	30	mA				
Pulse Forward Current*	I _{FP}	100	mA				
Reverse Voltage	V_{R}	5	V				
Power Dissipation	P _D	105	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	ecs				
		Hand Soldering: 350° C for 3 secs					

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

ITEM	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_{F}	IF = 20mA	2.8	3.4	Volt
Luminous Intensity	L _V	IF = 20mA	6.5	9.75	lm
Color Coordinates	x, y	IF = 20mA	.275	.305	Х
			.235	.295	у
Viewing Angle		IF = 20mA	120° x	120° y	Degrees

L. WENC	L. WENGSTROM DRAWING NO.			ZSM-S3806-W						
APPV'D BY	DATE 12/22/14	RELEASED DATE	6/14/07	REVISION DATE	ON 12/22/14	REV. NO.	=	SHEET 2 OF 5		



SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

2GE

2GF

0.2732

0.2705

0.2773

0.2800

0.2705

0.2679

0.2746

0.2773

ATES

2C	E	2D	E	2E	E	2F	E	2G	E
0.2727	0.2435	0.2774	0.2510	0.2821	0.2585	0.2866	0.2658	0.2909	
0.2743	0.2413	0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	
0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	0.2705	0.2965	
0.2774	0.2510	0.2821	0.2585	0.2866	0.2658	0.2909	0.2732	0.2951	
2C	F	2D	F	2E	F	2F	F	2G	F
0.2743	0.2413	0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	
0.2760	0.2390	0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	
0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	0.2679	0.2980	
0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	0.2705	0.2965	
2C	G	2D	G	2E	G	2F	G	2G	C
0.2760	0.2390	0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	
0.2779	0.2366	0.2826	0.2441	0.2873	0.2516	0.2915	0.2585	0.2955	
0.2826	0.2441	0.2873	0.2516	0.2915	0.2585	0.2955	0.2652	0.2994	

G	2G	G	2H	G	2JG		
0.2610	0.2940	0.2679	0.2980	0.2746	0.3022	0.2824	
0.2585	0.2955	0.2652	0.2994	0.2719	0.3035	0.2797	
0.2652	0.2994	0.2719	0.3035	0.2797	0.3072	0.2862	
0.2679	0.2980	0.2746	0.3022	0.2824	0.3060	0.2890	

2HE

0.2800

0.2773

0.2851

0.2878

0.2773

0.2746

0.2824

0.2851

0.2995

0.3008

0.3048

0.3035

0.3008

0.3022

0.3060

0.3048

0.2878

0.2851

0.2918

0.2945

0.2851

0.2824

0.2890

0.2918

0.2951

0.2965

0.3008

0.2995

0.2965

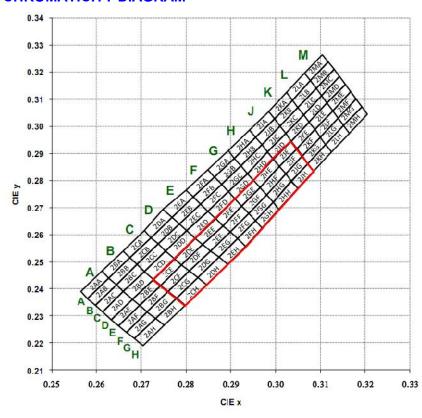
0.2980

0.3022

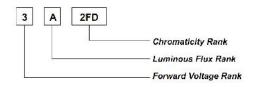
0.3008

				0.2101	0.0072	0.2002
4 0.2540 0.2898	0.2610 0.2940	0.2679 0.2980	0.2746 0.302	2 0.2824	0.3060	0.2890
2DH 2	EH 2	FH 2	2GH	2HH	2.J.	1
0.2441 0.2873	0.2516 0.2915	0.2585 0.2955	0.2652 0.299	4 0.2719	0.3035	0.2796
0.2415 0.2892	0.2490 0.2933	0.2557 0.2970	0.2625 0.300	7 0.2692	0.3050	0.2770
0.2490 0.2933	0.2557 0.2970	0.2625 0.3007	0.2692 0.305	0 0.2770	0.3085	0.2835
0.2516 0.2915	0.2585 0.2955	0.2652 0.2994	0.2719 0.303	5 0.2797	0.3072	0.2862
	2DH 2 6 0.2441 0.2873 5 0.2415 0.2892 2 0.2490 0.2933	2DH 2EH 2 6 0.2441 0.2873 0.2516 0.2915 5 0.2415 0.2892 0.2490 0.2933 2 0.2490 0.2933 0.2557 0.2970	2DH 2EH 2FH 2 6 0.2441 0.2873 0.2516 0.2915 0.2585 0.2955 5 0.2415 0.2892 0.2490 0.2933 0.2557 0.2970 2 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007	2DH 2EH 2FH 2GH 6 0.2441 0.2873 0.2516 0.2915 0.2585 0.2955 0.2652 0.299 5 0.2415 0.2892 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007 0.2692 0.305 2 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007 0.2692 0.305	2DH 2EH 2FH 2GH 2HH 6 0.2441 0.2873 0.2516 0.2915 0.2585 0.2955 0.2652 0.2994 0.2719 5 0.2415 0.2892 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007 0.2692 2 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007 0.2692 0.3050 0.2770	ZDH 2EH 2FH 2GH 2HH 2JH 6 0.2441 0.2873 0.2516 0.2915 0.2585 0.2955 0.2652 0.2994 0.2719 0.3035 5 0.2415 0.2892 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007 0.2692 0.3050 2 0.2490 0.2933 0.2557 0.2970 0.2625 0.3007 0.2692 0.3050 0.2770 0.3085

CHROMATICITY DIAGRAM



BIN CODE DEFINITION



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OLI	• COMPONENTS CORPORATION

L. WENG	STROM	DRAWING NO.		ZSN	/			
APPV'D BY		RELEASED		REVISIO	N	REV.	_	SHEET
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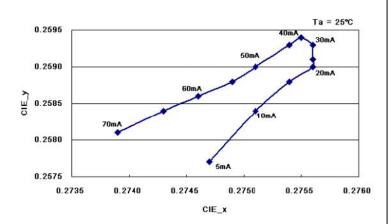
SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

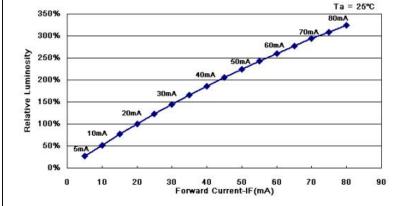
Forward Voltage vs. Forward Current

Ta = 25°C 80mA 70mA 60mA 40mA 20mA 20mA 5mA 10mA 20mA 20mA 5mA 10mA 5mA 10mA

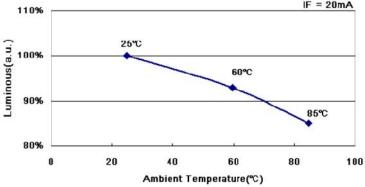
Forward Current vs. Chromaticity Diagram



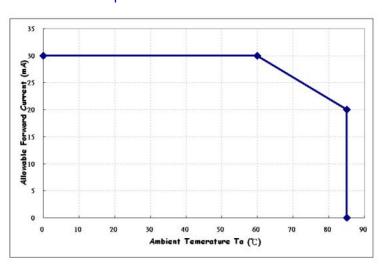
Forward Current vs. Relative Luminosity



Ambient Temperature vs. Relative Luminous



Ambient Temperature vs. Allowable Forward Current



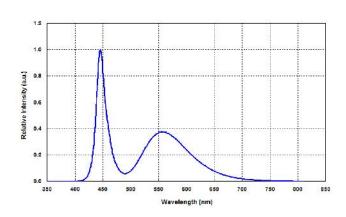
L. WENG	L. WENGSTROM NO.			ZSM-S3806-W					
APPV'D BY	DATE	RELEASED		REVISIO	N	REV	SHEET		
L.R.	12/22/14	DATE	6/14/07	DATE	12/22/14	NO.	4 ∩F 5		



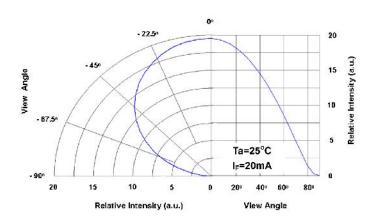


TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)

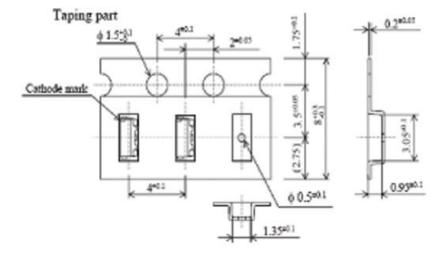
Spectrum



Radiation Pattern



PACKAGING: 5000 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.

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L. WENGSTROM		DRAWING NO.	ZSM-S3806-W					
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