Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
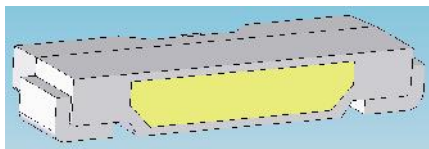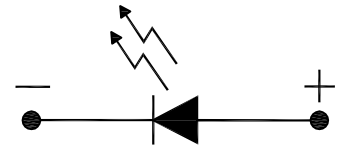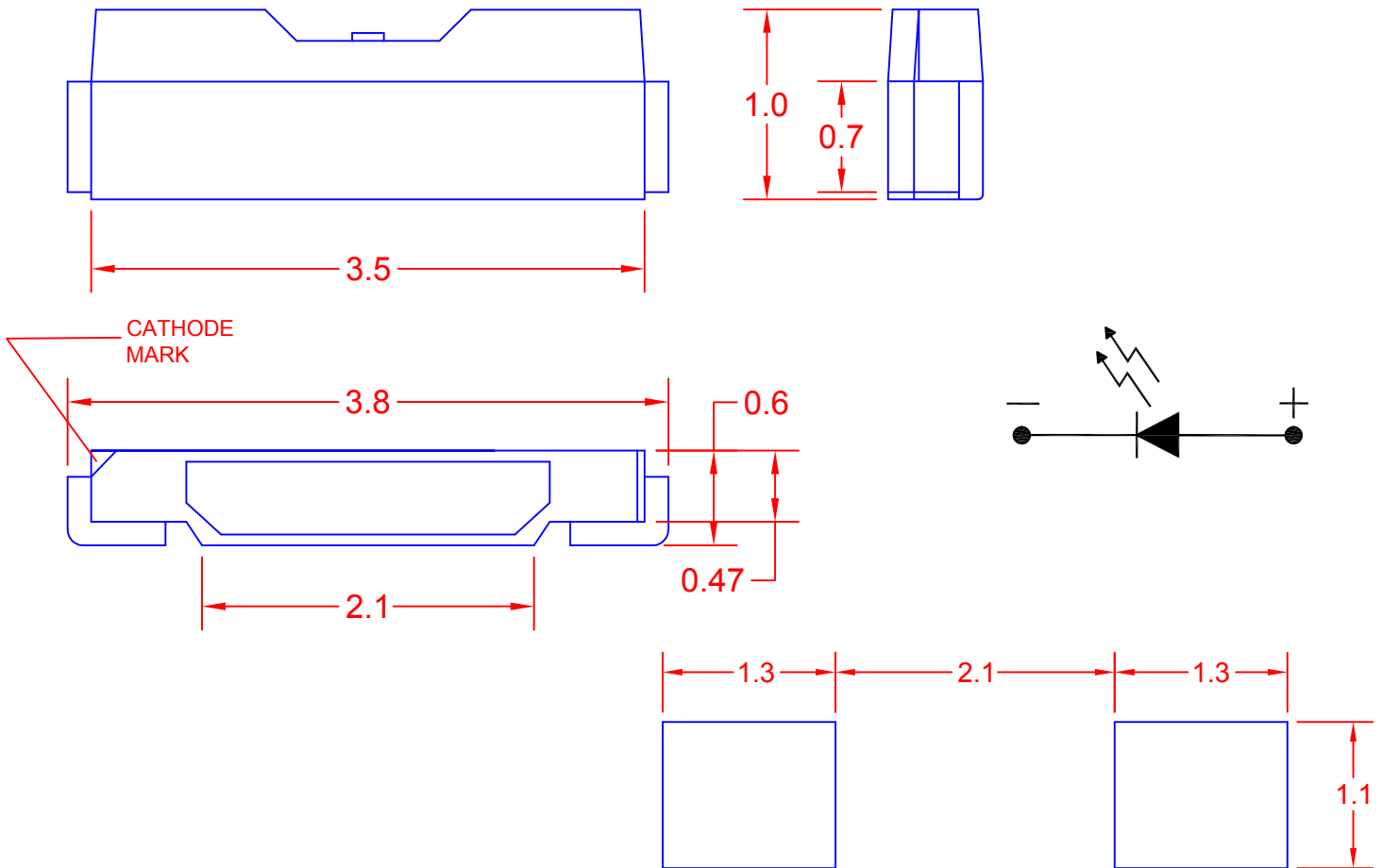
Contact us

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

1.0

0.7

3.5

CATHODE MARK

3.8

0.6

0.47

2.1

1.3   2.1   1.3

1.1

RECOMMENDED SOLDERING PAD LAYOUT

− +

JKL PART NO.: ZSM-S3806-W

Pb
Pb-free

JKL COMPONENTS CORPORATION

DRAWN BY L. WENGSTROM	DRAWING NO.	ZSM-S3806-W		
APPV'D BY DATE L.R. 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	I_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	T_{stg}	-40 ～ +100	°C
Soldering Temperature	T_{sld}	Reflow Soldering: 260° C for 10 secs Hand Soldering: 350° C for 3 secs	

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

ITEM	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	I_F = 20mA	2.8	3.4	Volt
Luminous Intensity	L_V	I_F = 20mA	6.5	9.75	lm
Color Coordinates	x, y	I_F = 20mA	.275	.305	x
			.235	.295	y
Viewing Angle	---	I_F = 20mA	120° x	120° y	Degrees

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

BIN RANGE OF CHROMATICITY COORDINATES

2CE		2DE		2EE		2FE		2GE		2HE		2JE	
0.2727	0.2435	0.2774	0.2510	0.2821	0.2585	0.2866	0.2658	0.2909	0.2732	0.2951	0.2800	0.2995	0.2878
0.2743	0.2413	0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	0.2705	0.2965	0.2773	0.3008	0.2851
0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	0.2705	0.2965	0.2773	0.3008	0.2851	0.3048	0.2918
0.2774	0.2510	0.2821	0.2585	0.2866	0.2658	0.2909	0.2732	0.2951	0.2800	0.2995	0.2878	0.3035	0.2945

2CF		2DF		2EF		2FF		2GF		2HF		2JF	
0.2743	0.2413	0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	0.2705	0.2965	0.2773	0.3008	0.2851
0.2760	0.2390	0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	0.2679	0.2980	0.2746	0.3022	0.2824
0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	0.2679	0.2980	0.2746	0.3022	0.2824	0.3060	0.2890
0.2790	0.2488	0.2837	0.2563	0.2882	0.2632	0.2924	0.2705	0.2965	0.2773	0.3008	0.2851	0.3048	0.2918

2CG		2DG		2EG		2FG		2GG		2HG		2JG	
0.2760	0.2390	0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	0.2679	0.2980	0.2746	0.3022	0.2824
0.2779	0.2366	0.2826	0.2441	0.2873	0.2516	0.2915	0.2585	0.2955	0.2652	0.2994	0.2719	0.3035	0.2797
0.2826	0.2441	0.2873	0.2516	0.2915	0.2585	0.2955	0.2652	0.2994	0.2719	0.3035	0.2797	0.3072	0.2862
0.2807	0.2465	0.2854	0.2540	0.2898	0.2610	0.2940	0.2679	0.2980	0.2746	0.3022	0.2824	0.3060	0.2890

2CH		2DH		2EH		2FH		2GH		2HH		2JH	
0.2779	0.2366	0.2826	0.2441	0.2873	0.2516	0.2915	0.2585	0.2955	0.2652	0.2994	0.2719	0.3035	0.2796
0.2798	0.2340	0.2845	0.2415	0.2892	0.2490	0.2933	0.2557	0.2970	0.2625	0.3007	0.2692	0.3050	0.2770
0.2845	0.2415	0.2892	0.2490	0.2933	0.2557	0.2970	0.2625	0.3007	0.2692	0.3050	0.2770	0.3085	0.2835
0.2826	0.2441	0.2873	0.2516	0.2915	0.2585	0.2955	0.2652	0.2994	0.2719	0.3035	0.2797	0.3072	0.2862

CHROMATICITY DIAGRAM

BIN CODE DEFINITION

3	A	2FD

- Chromaticity Rank
- Luminous Flux Rank
- Forward Voltage Rank

JKL COMPONENTS CORPORATION

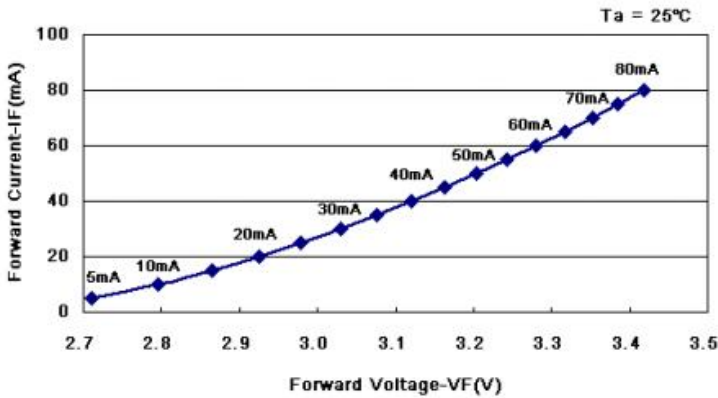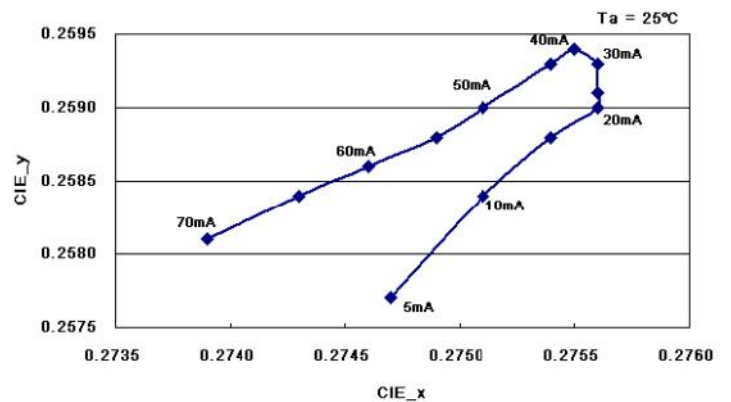| DRAWN BY	DRAWING NO.	ZSM-S3806-W			
L. WENGSTROM					
APPV'D BY	DATE	RELEASED DATE	REVISION DATE	REV. NO.	SHEET
L.R.	12/22/14	6/14/07	12/22/14	E	3 OF 5
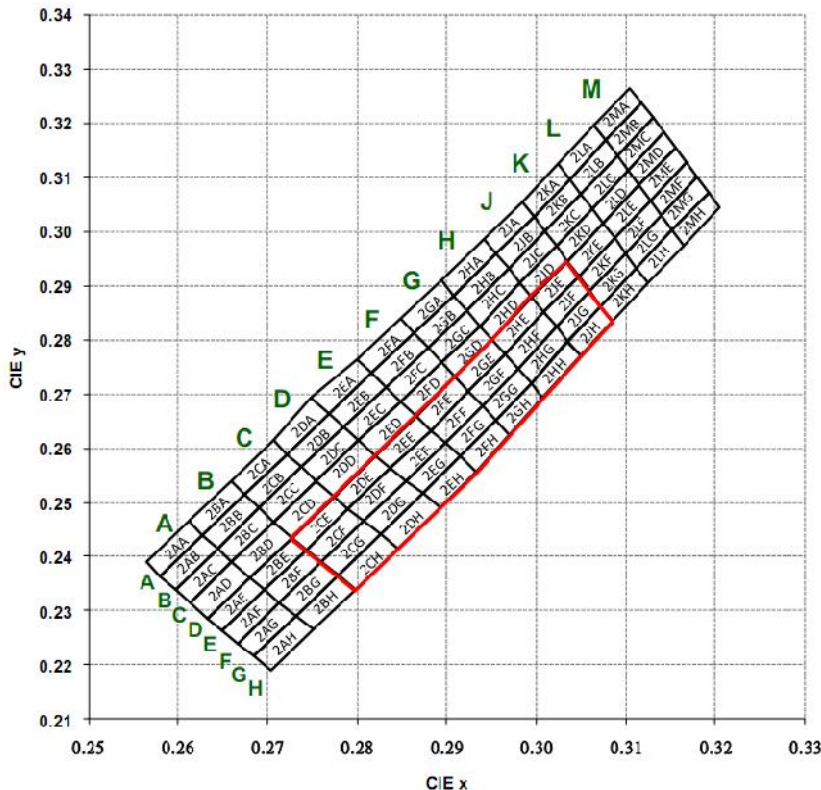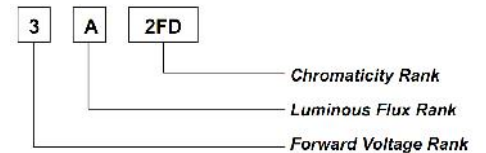
SURFACE MOUNT WHITE LED
SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES
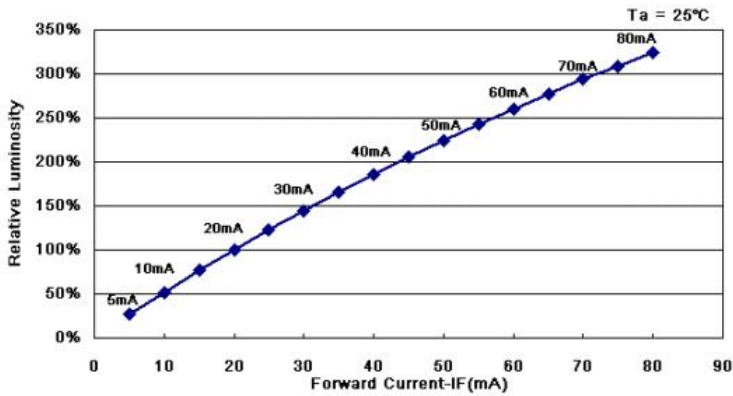
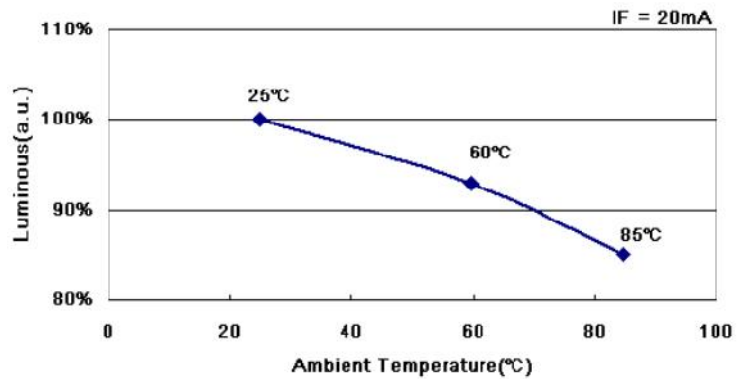### Forward Voltage vs. Forward Current
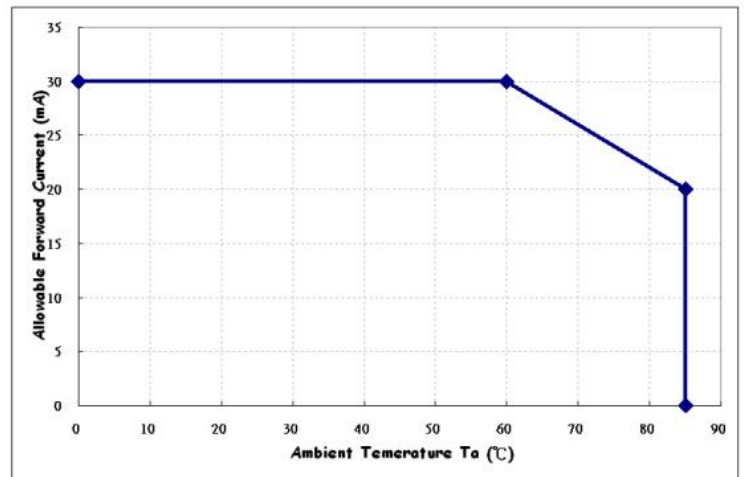

Forward Current vs. Chromaticity Diagram

Forward Current vs. Relative Luminosity

Ambient Temperature vs. Relative Luminous
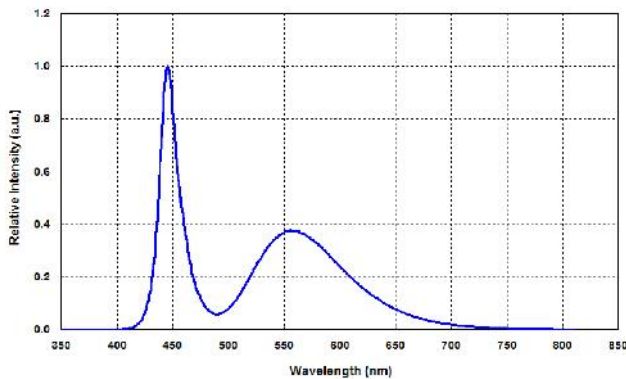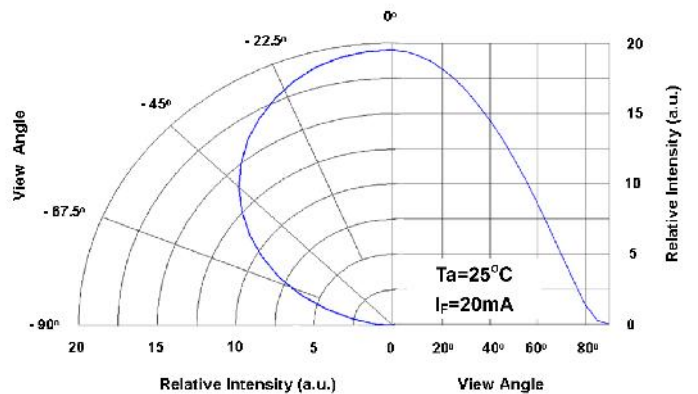

Ambient Temperature vs. Allowable Forward Current

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L. WENGSTROM				
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L.R.	12/22/14	6/14/07	12/22/14		

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)
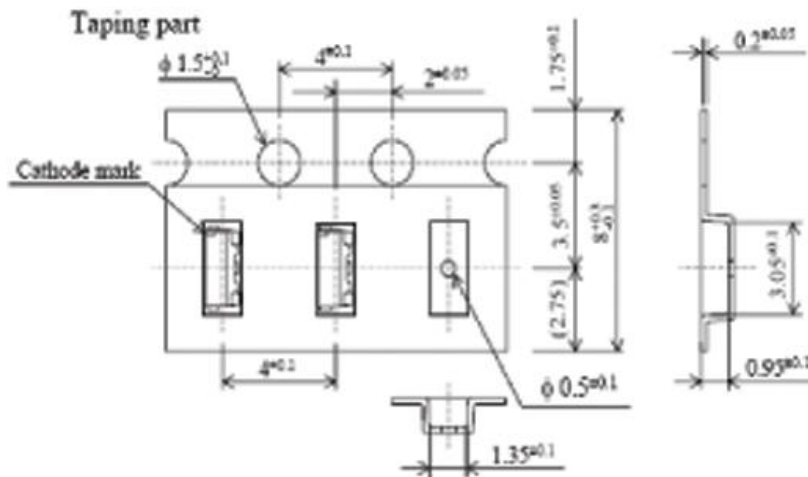
Spectrum

Radiation Pattern

Ta=25°C
I$_F$=20mA

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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