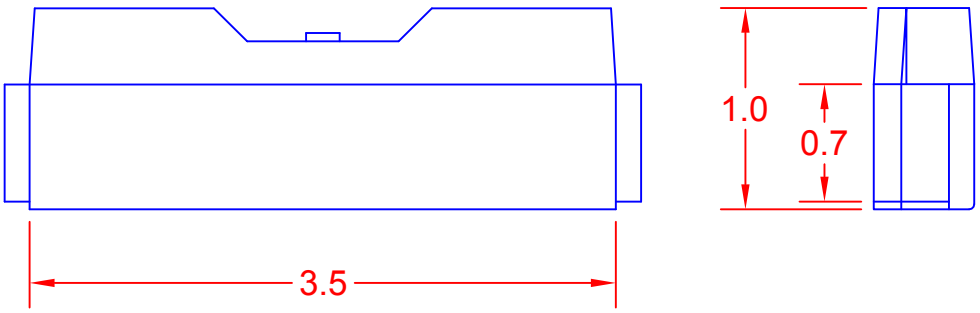
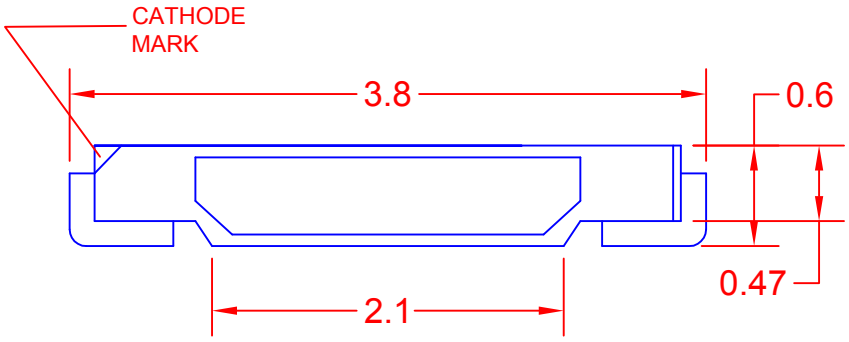
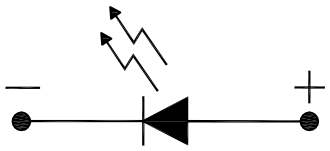
SURFACE MOUNT WHITE LED
SIDE VIEW 3.8 X 1.0 X 0.6mm

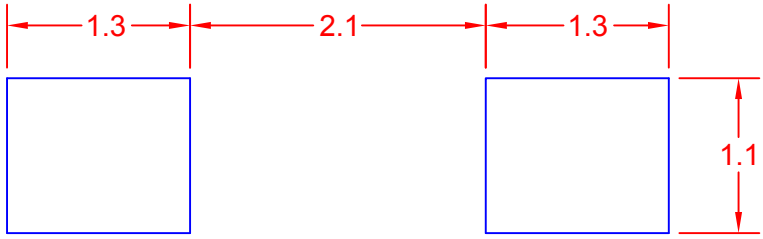
FEATURES

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

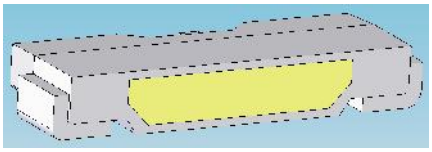








RECOMMENDED SOLDERING PAD LAYOUT



JKL PART NO.: ZSM-S3806-W

Pb-free

JKL COMPONENTS CORPORATION	DRAWN BY: L. WENGSTROM	DRAWING NO.: ZSM-S3806-W				
	APP'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	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	
0.2727	0.2435
0.2743	0.2413
0.2790	0.2488
0.2774	0.2510

2DE	
0.2774	0.2510
0.2790	0.2488
0.2837	0.2563
0.2821	0.2585

2EE	
0.2821	0.2585
0.2837	0.2563
0.2882	0.2632
0.2866	0.2658

2FE	
0.2866	0.2658
0.2882	0.2632
0.2924	0.2705
0.2909	0.2732

2GE	
0.2909	0.2732
0.2924	0.2705
0.2965	0.2773
0.2951	0.2800

2HE	
0.2951	0.2800
0.2965	0.2773
0.3008	0.2851
0.2995	0.2878

2JE	
0.2995	0.2878
0.3008	0.2851
0.3048	0.2918
0.3035	0.2945

2CF	
0.2743	0.2413
0.2760	0.2390
0.2807	0.2465
0.2790	0.2488

2DF	
0.2790	0.2488
0.2807	0.2465
0.2854	0.2540
0.2837	0.2563

2EF	
0.2837	0.2563
0.2854	0.2540
0.2898	0.2610
0.2882	0.2632

2FF	
0.2882	0.2632
0.2898	0.2610
0.2940	0.2679
0.2924	0.2705

2GF	
0.2924	0.2705
0.2940	0.2679
0.2980	0.2746
0.2965	0.2773

2HF	
0.2965	0.2773
0.2980	0.2746
0.3022	0.2824
0.3008	0.2851

2JF	
0.3008	0.2851
0.3022	0.2824
0.3060	0.2890
0.3048	0.2918

2CG	
0.2760	0.2390
0.2779	0.2366
0.2826	0.2441
0.2807	0.2465

2DG	
0.2807	0.2465
0.2826	0.2441
0.2873	0.2516
0.2854	0.2540

2EG	
0.2854	0.2540
0.2873	0.2516
0.2915	0.2585
0.2898	0.2610

2FG	
0.2898	0.2610
0.2915	0.2585
0.2955	0.2652
0.2940	0.2679

2GG	
0.2940	0.2679
0.2955	0.2652
0.2994	0.2719
0.2980	0.2746

2HG	
0.2980	0.2746
0.2994	0.2719
0.3035	0.2797
0.3022	0.2824

2JG	
0.3022	0.2824
0.3035	0.2797
0.3072	0.2862
0.3060	0.2890

2CH	
0.2779	0.2366
0.2798	0.2340
0.2845	0.2415
0.2826	0.2441

2DH	
0.2826	0.2441
0.2845	0.2415
0.2892	0.2490
0.2873	0.2516

2EH	
0.2873	0.2516
0.2892	0.2490
0.2933	0.2557
0.2915	0.2585

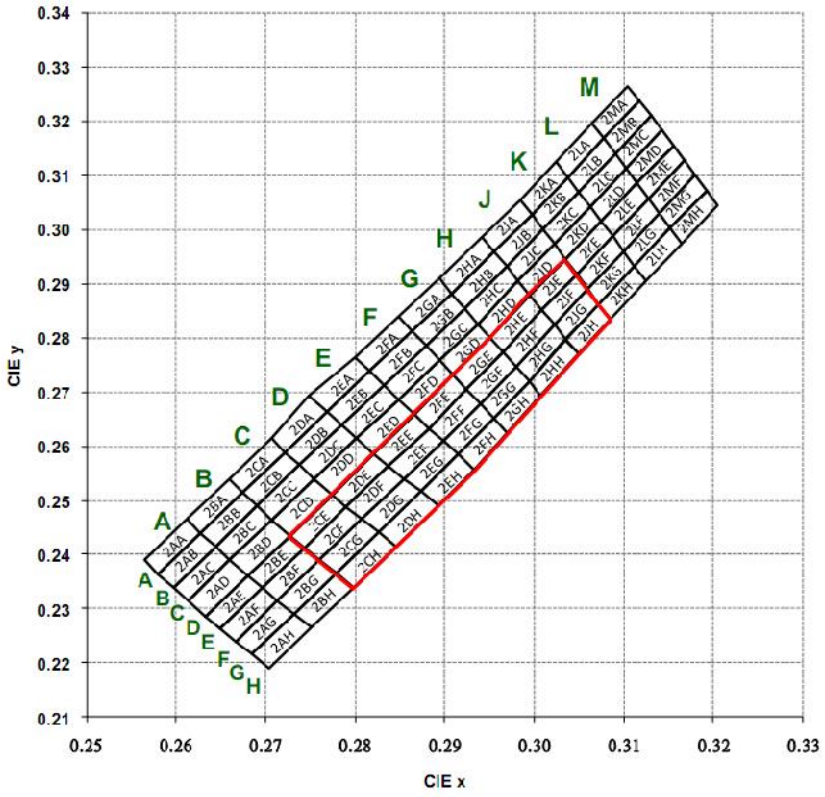
2FH	
0.2915	0.2585
0.2933	0.2557
0.2970	0.2625
0.2955	0.2652

2GH	
0.2955	0.2652
0.2970	0.2625
0.3007	0.2692
0.2994	0.2719

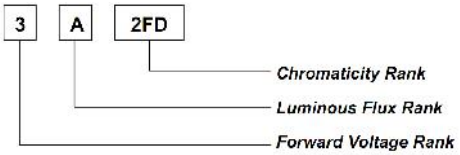
2HH	
0.2994	0.2719
0.3007	0.2692
0.3050	0.2770
0.3035	0.2797

2JH	
0.3035	0.2796
0.3050	0.2770
0.3085	0.2835
0.3072	0.2862

CHROMATICITY DIAGRAM



BIN CODE DEFINITION



JKL COMPONENTS CORPORATION

DRAWN BY: L. WENGSTROM		DRAWING NO.: ZSM-S3806-W					
APPV'D BY: L.R.	DATE: 12/22/14	RELEASED DATE: 6/14/07	REVISION DATE: 12/22/14	REV. NO.: E	SHEET: 3 OF 5		

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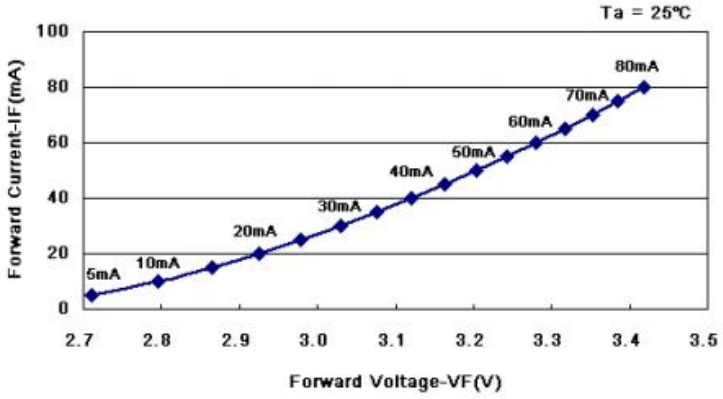
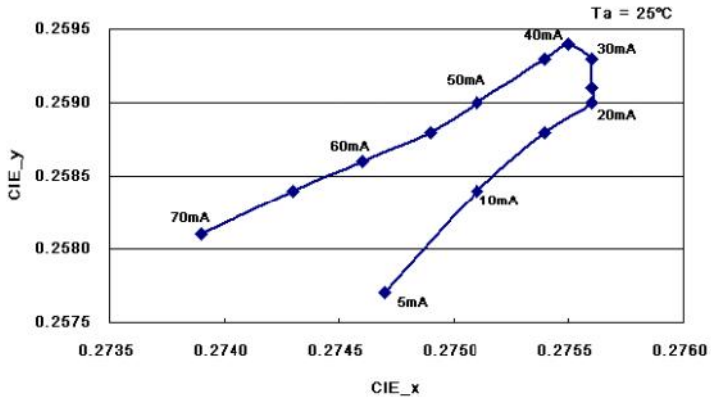
SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

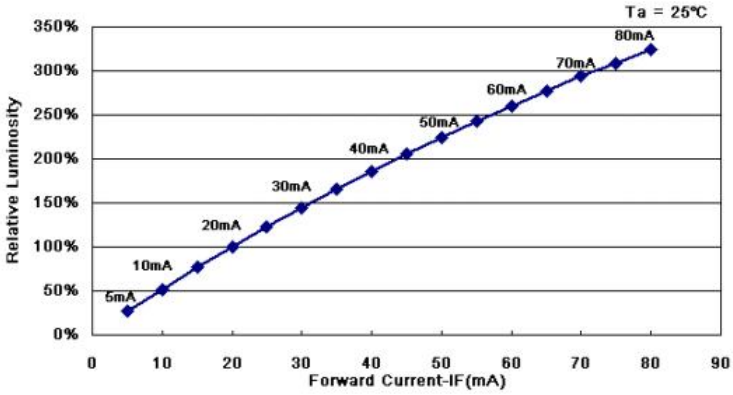
Forward Voltage vs. Forward Current



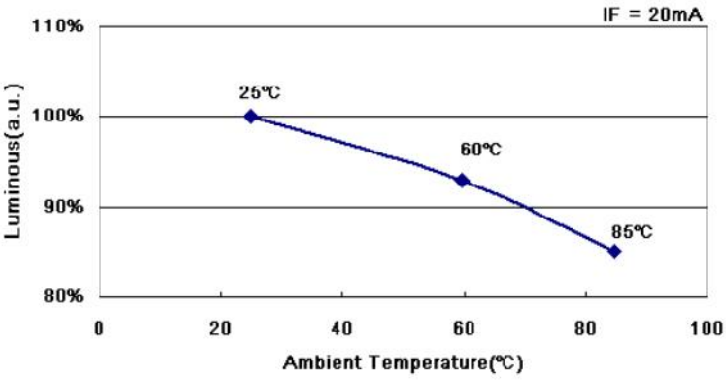
Forward Current vs. Chromaticity Diagram



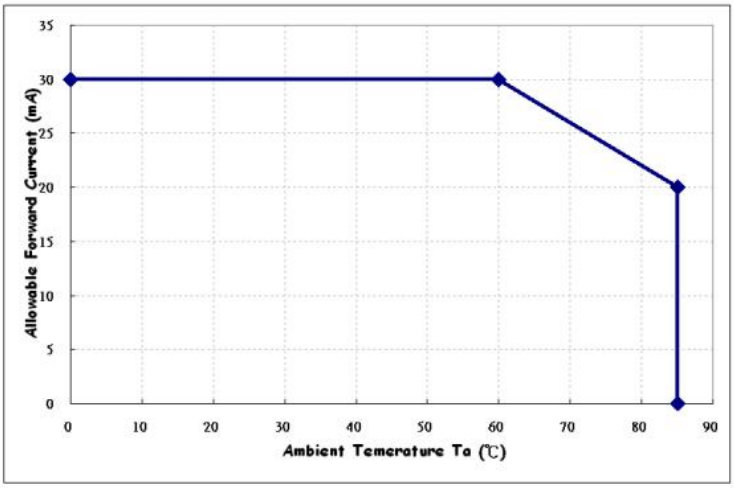
Forward Current vs. Relative Luminosity



Ambient Temperature vs. Relative Luminous



Ambient Temperature vs. Allowable Forward Current

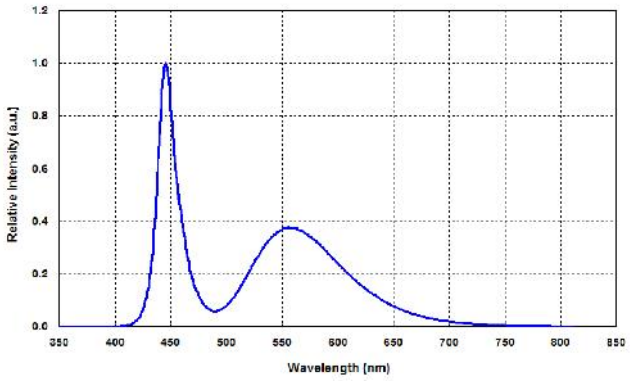


JKL COMPONENTS CORPORATION	DRAWN BY: L. WENGSTROM	DRAWING NO.: ZSM-S3806-W				
	APPV'D BY: L.R.	DATE: 12/22/14	RELEASED DATE: 6/14/07	REVISION DATE: 12/22/14	REV. NO.: E	SHEET: 4 OF 5

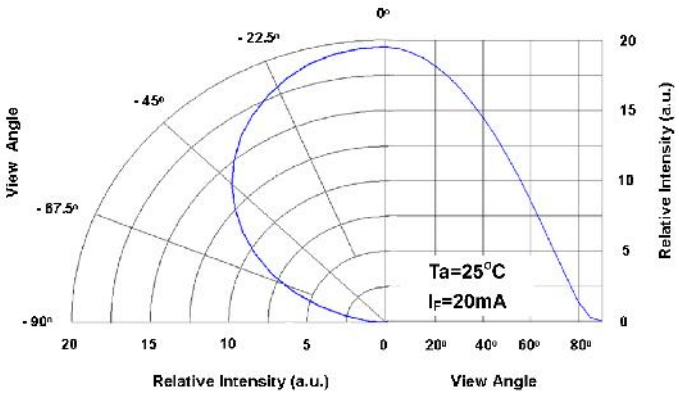
SURFACE MOUNT WHITE LED
SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)

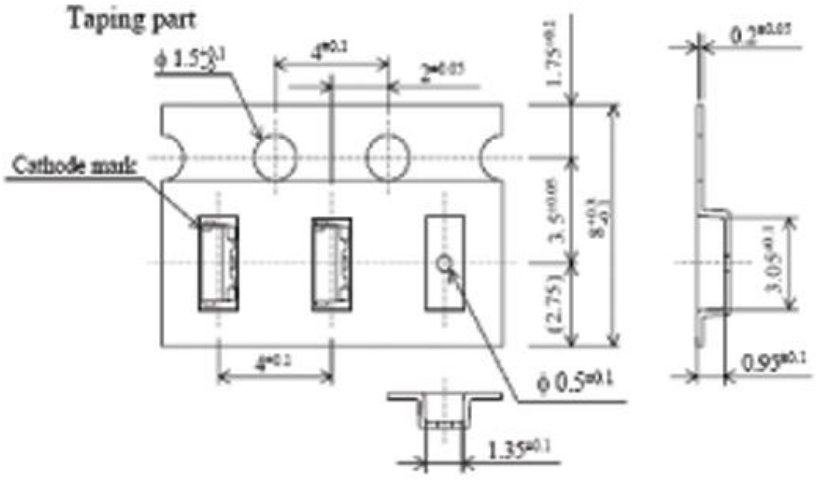
Spectrum



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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