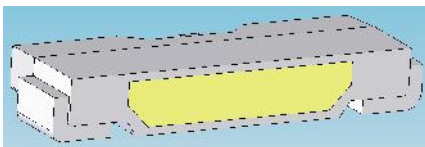
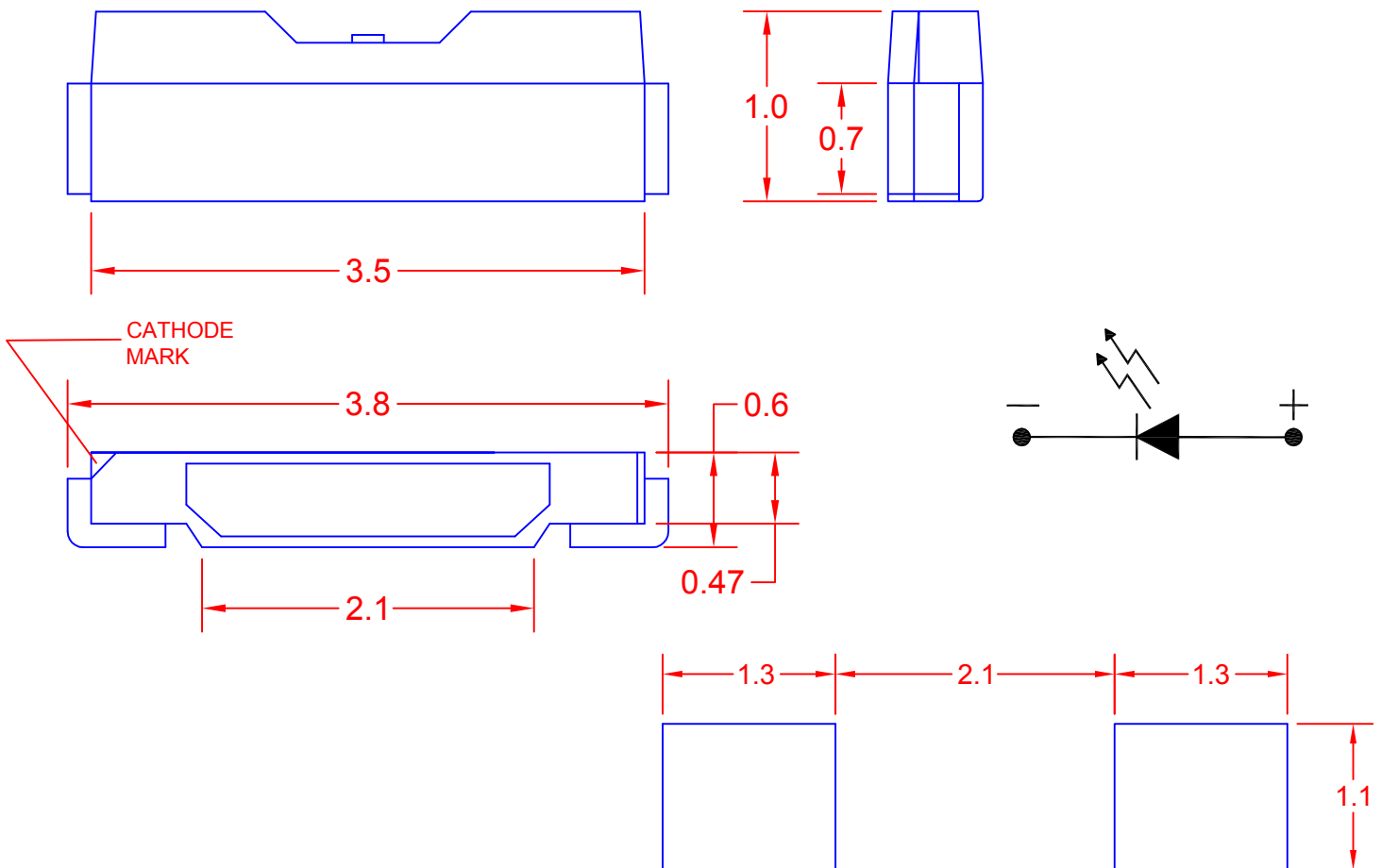




SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

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

RECOMMENDED SOLDERING PAD LAYOUT





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

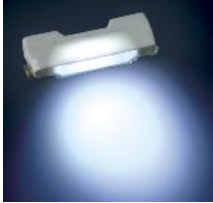
SPECIFICATIONS

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	$I_F = 20\text{mA}$	2.8	3.4	Volt
Luminous Intensity	L_V	$I_F = 20\text{mA}$	6.5	9.75	lm
Color Coordinates	x, y	$I_F = 20\text{mA}$.275	.305	x
			.235	.295	y
Viewing Angle	---	$I_F = 20\text{mA}$	120° x	120° y	Degrees

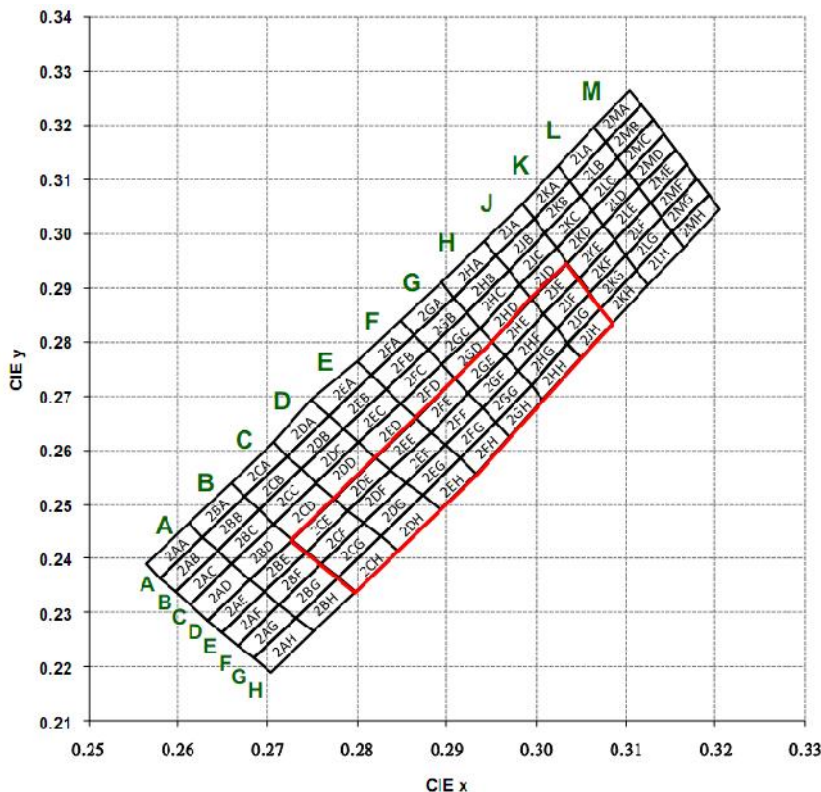


SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

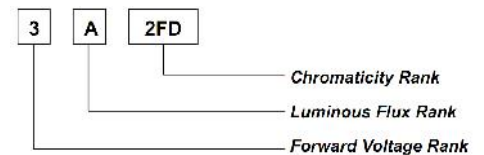
BIN RANGE OF CHROMATICITY COORDINATES

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

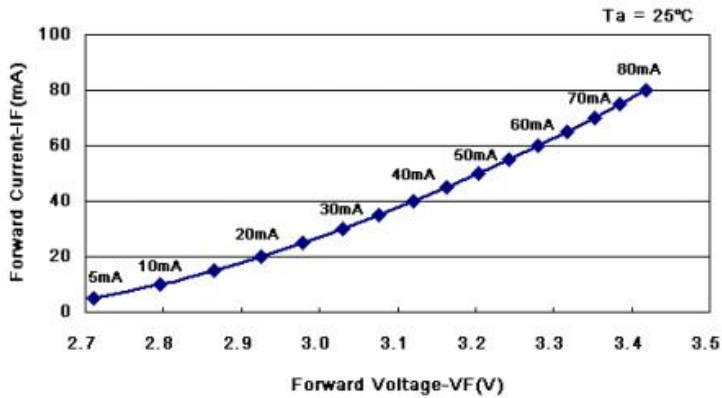




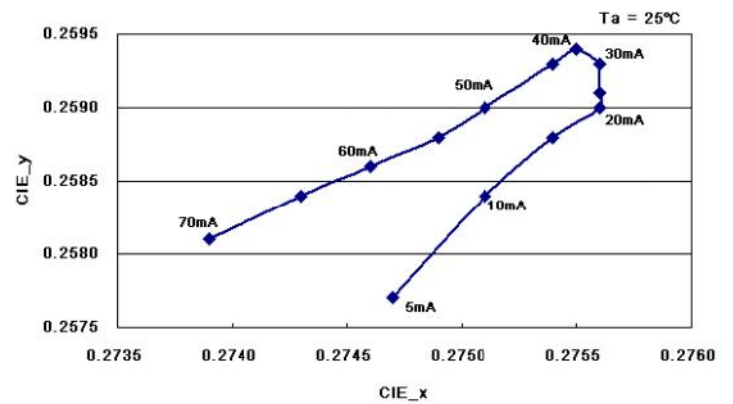
SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

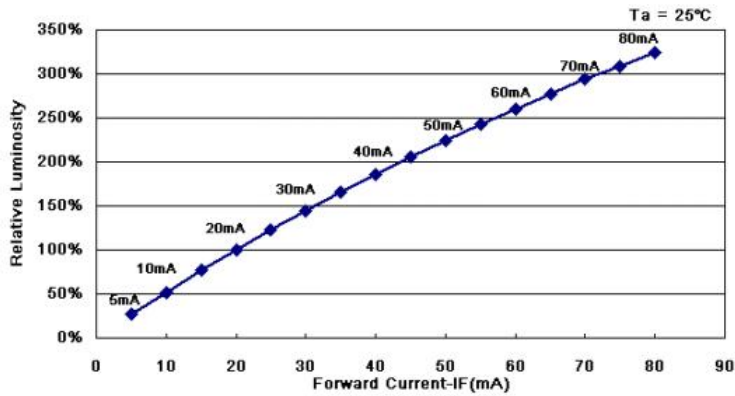
Forward Voltage vs. Forward Current



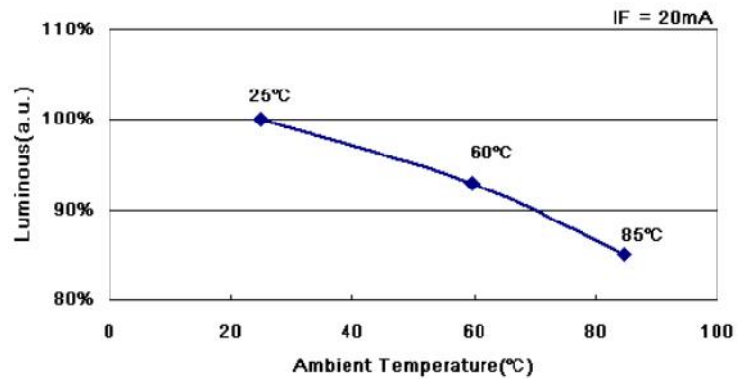
Forward Current vs. Chromaticity Diagram



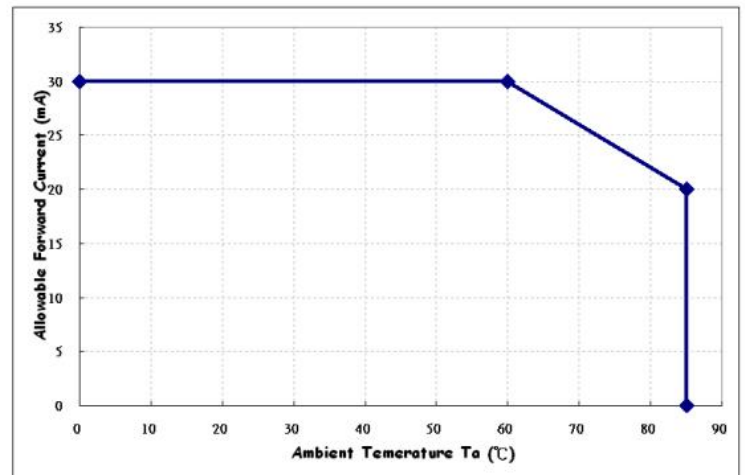
Forward Current vs. Relative Luminosity



Ambient Temperature vs. Relative Luminous



Ambient Temperature vs. Allowable Forward Current

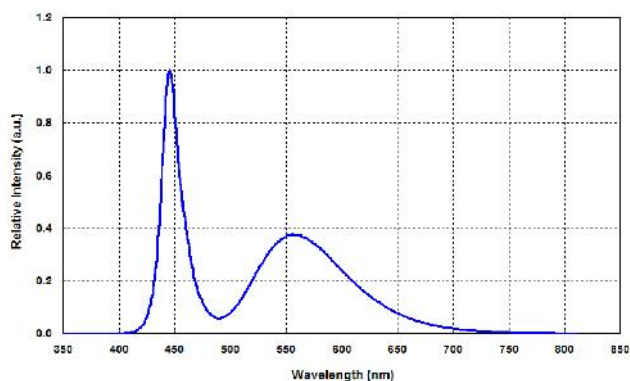




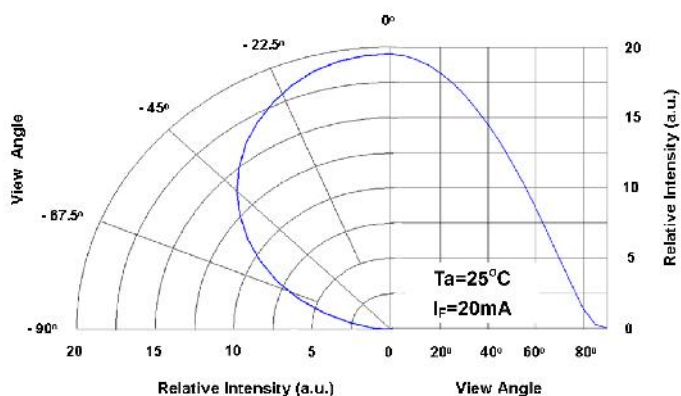
SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)

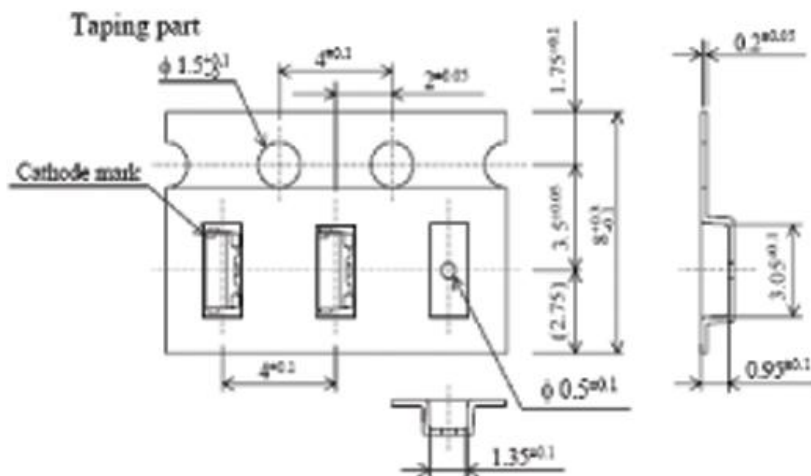
Spectrum



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 HANDLE WITHOUT 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.