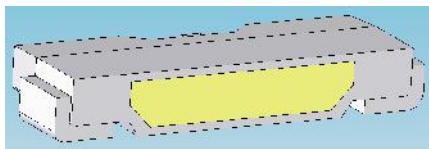
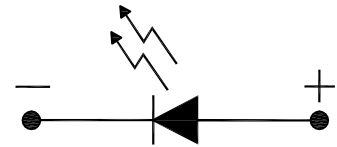
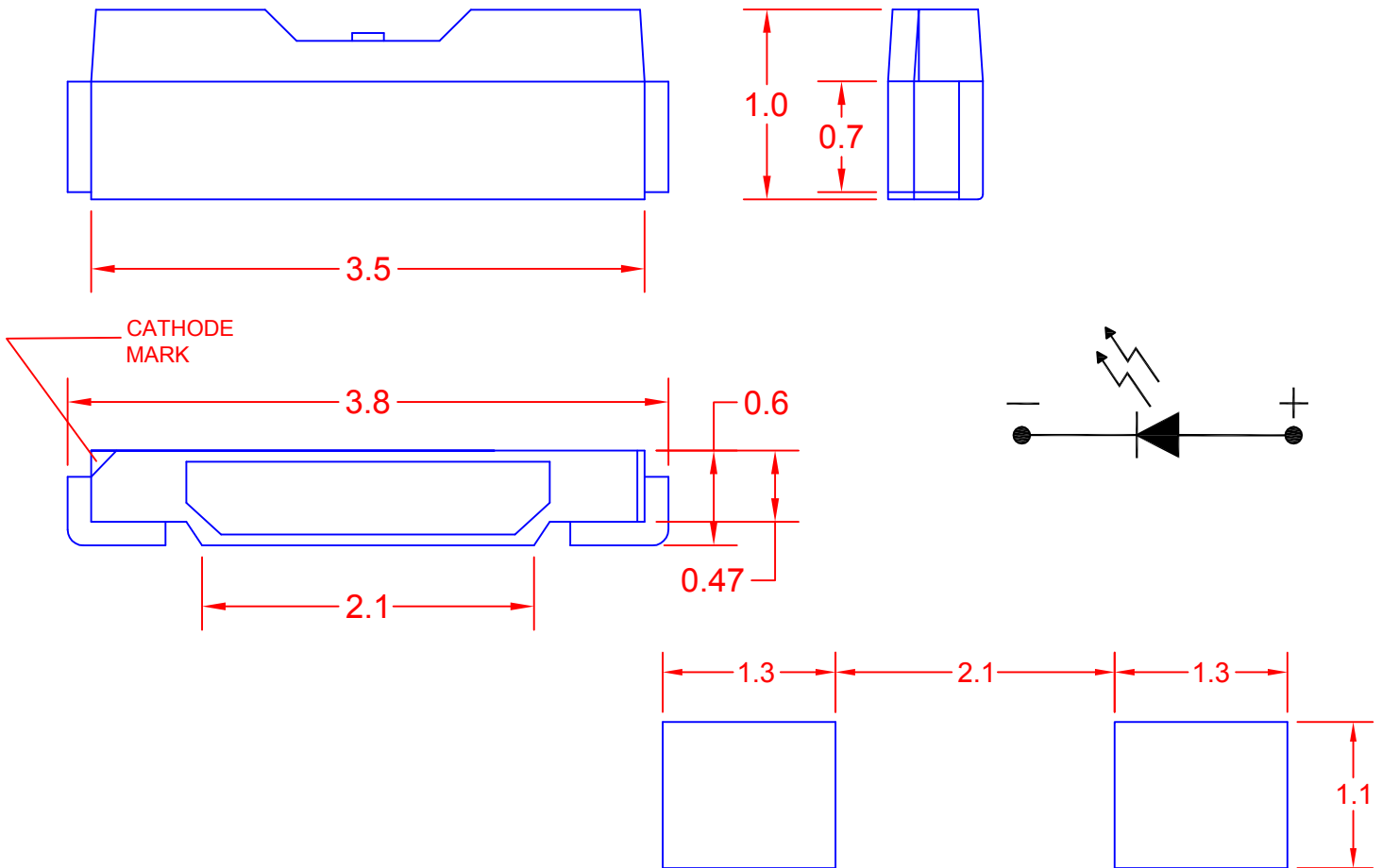




SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

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

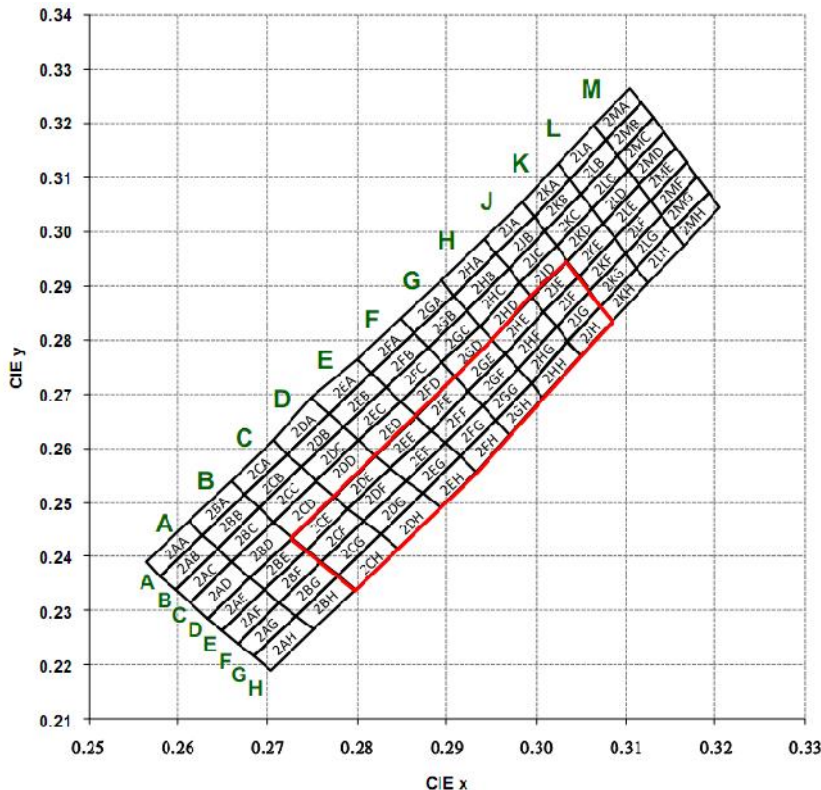


SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

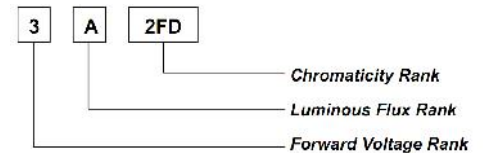
BIN RANGE OF CHROMATICITY COORDINATES

2CE 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 0.2797 0.3050 0.2770 0.3085 0.2835 0.3072 0.2862

CHROMATICITY DIAGRAM



BIN CODE DEFINITION

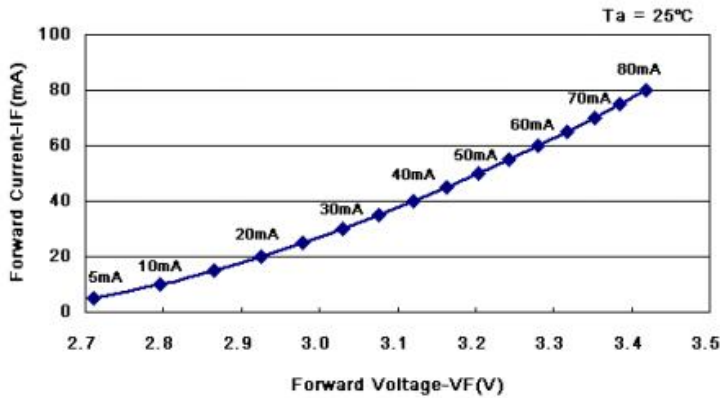




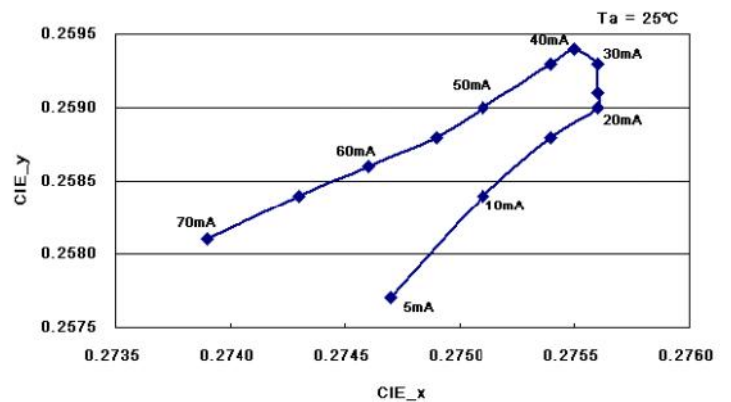
SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

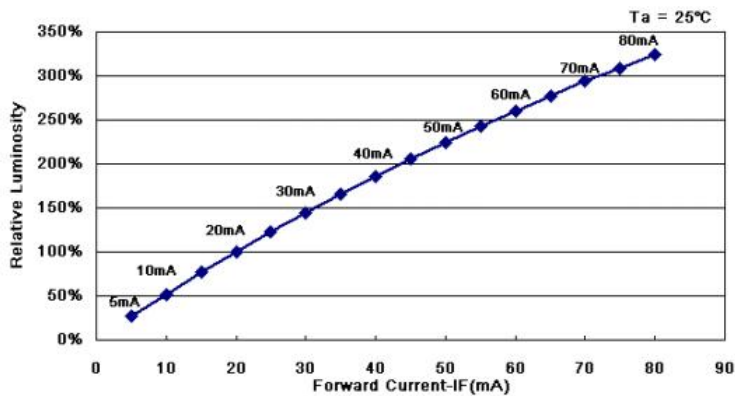
Forward Voltage vs. Forward Current



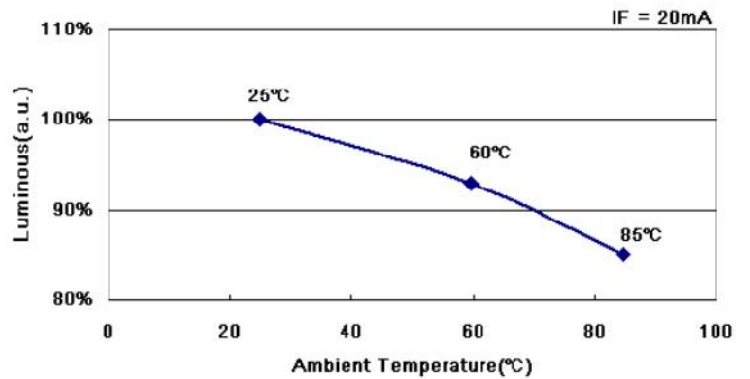
Forward Current vs. Chromaticity Diagram



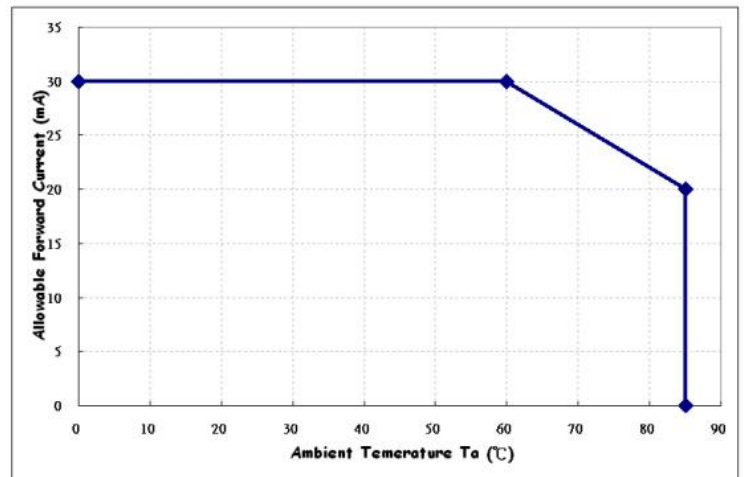
Forward Current vs. Relative Luminosity



Ambient Temperature vs. Relative Luminous



Ambient Temperature vs. Allowable Forward Current

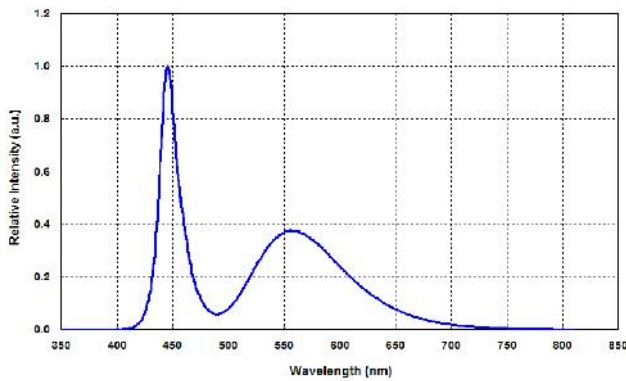




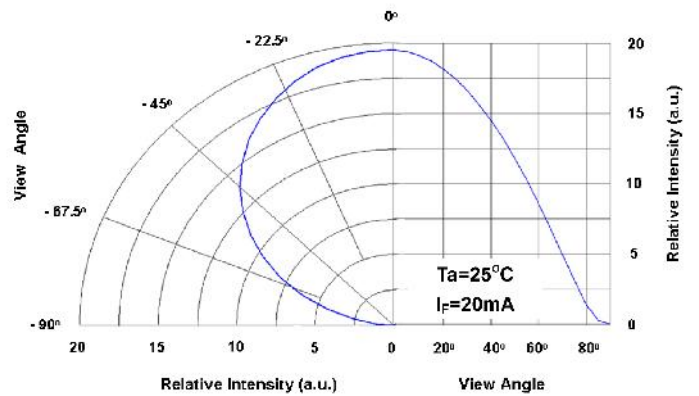
SURFACE MOUNT WHITE LED SIDE VIEW 3.8 X 1.0 X 0.6mm

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)

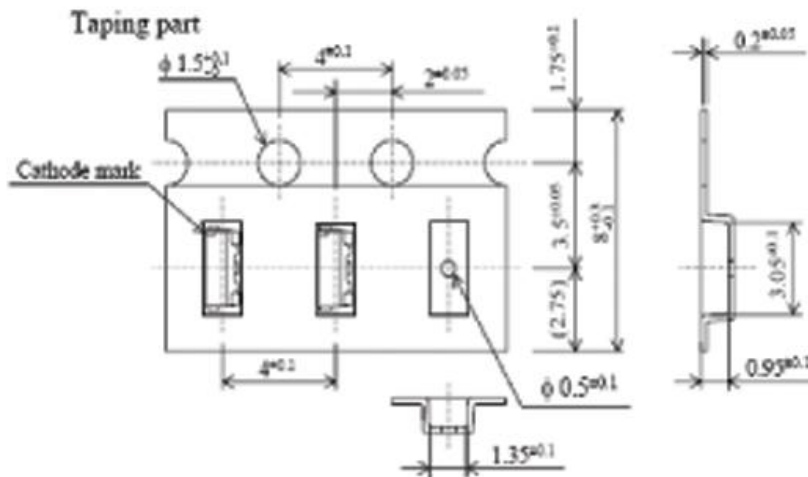
Spectrum



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.