mail

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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





SPECIFICATIONS

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

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Forward Current	١ _F	30	mA
Pulse Forward Current*	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	PD	105	mW
Operating Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	O°
Soldering Temperature	T _{sld}	Reflow Soldering: 260° C for 10 s	ecs
		Hand Soldering: 350° C for 3 sec	s

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	LV	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

IKI	DRAWN BY L. WENGSTROM		DRAWING NO.		ZSN	<i>I</i> -S380	6-W	
COMPONENTS CORPORATION	APPV'D BY	DATE	RELEASED		REVISIO	r V	REV.	SHEET
vor = 2000 − 0.001 − 0.000 − − − − − − − − − − − − − − − −	L.R.	12/22/14	DATE	6/14/07	DATE	12/22/14	NO.	2 _{OF} 5



BIN RANGE OF CHROMATICITY COORDINATES

20	E	20	E	2E	E	2F	E	2G	E	2HE		2J	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	
20	F	20	F	28	F	2F	F	2G	F	2H	IF	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	
										286				
20	G	2D	G	2E	G	2F	G	2G	G	2H	G	2J	G	
0.2760	G 0.2390	0.2807	G 0.2465	0.2854	G 0.2540	0.2898	G 0.2610	0.2940	G 0.2679	2H 0.2980	G 0.2746	2J	G 0.2824	
0.2760 0.2779	G 0.2390 0.2366	0.2807 0.2826	G 0.2465 0.2441	0.2854 0.2873	G 0.2540 0.2516	0.2898 0.2915	G 0.2610 0.2585	2G 0.2940 0.2955	G 0.2679 0.2652	0.2980 0.2994	G 0.2746 0.2719	2J 0.3022 0.3035	G 0.2824 0.2797	
0.2760 0.2779 0.2826	G 0.2390 0.2366 0.2441	0.2807 0.2826 0.2873	G 0.2465 0.2441 0.2516	2E 0.2854 0.2873 0.2915	G 0.2540 0.2516 0.2585	0.2898 0.2915 0.2955	G 0.2610 0.2585 0.2652	2G 0.2940 0.2955 0.2994	G 0.2679 0.2652 0.2719	2H 0.2980 0.2994 0.3035	G 0.2746 0.2719 0.2797	2J 0.3022 0.3035 0.3072	G 0.2824 0.2797 0.2862	
2C 0.2760 0.2779 0.2826 0.2807	G 0.2390 0.2366 0.2441 0.2465	2D 0.2807 0.2826 0.2873 0.2854	G 0.2465 0.2441 0.2516 0.2540	2E 0.2854 0.2873 0.2915 0.2898	G 0.2540 0.2516 0.2585 0.2610	2F 0.2898 0.2915 0.2955 0.2940	G 0.2610 0.2585 0.2652 0.2679	2G 0.2940 0.2955 0.2994 0.2980	G 0.2679 0.2652 0.2719 0.2746	2H 0.2980 0.2994 0.3035 0.3022	G 0.2746 0.2719 0.2797 0.2824	2J 0.3022 0.3035 0.3072 0.3060	G 0.2824 0.2797 0.2862 0.2890	
2C 0.2760 0.2779 0.2826 0.2807	G 0.2390 0.2366 0.2441 0.2465	2D 0.2807 0.2826 0.2873 0.2854 2D	G 0.2465 0.2441 0.2516 0.2540	2E 0.2854 0.2873 0.2915 0.2898 2E	G 0.2540 0.2516 0.2585 0.2610 H	2F 0.2898 0.2915 0.2955 0.2940 2F	G 0.2610 0.2585 0.2652 0.2679 H	2G 0.2940 0.2955 0.2994 0.2980	G 0.2679 0.2652 0.2719 0.2746	2H 0.2980 0.2994 0.3035 0.3022 2H	G 0.2746 0.2719 0.2797 0.2824	2J 0.3022 0.3035 0.3072 0.3060 2J	G 0.2824 0.2797 0.2862 0.2890 H	
2C 0.2760 0.2779 0.2826 0.2807 2C 0.2779	G 0.2390 0.2366 0.2441 0.2465 H 0.2366	2D 0.2807 0.2826 0.2873 0.2854 2D 0.2854	G 0.2465 0.2441 0.2516 0.2540 H 0.2441	2E 0.2854 0.2915 0.2998 0.2898 2E 0.2873	G 0.2540 0.2516 0.2685 0.2610 H 0.2516	2F 0.2898 0.2915 0.2955 0.2940 2F 0.2915	G 0.2610 0.2585 0.2652 0.2679 H 0.2585	2G 0.2940 0.2955 0.2994 0.2980 2G 0.2955	G 0.2679 0.2652 0.2719 0.2746 H 0.2652	2H 0.2980 0.2994 0.3035 0.3022 2H 0.2994	G 0.2746 0.2719 0.2797 0.2824 H 0.2719	2J 0.3022 0.3035 0.3072 0.3060 2J 0.3035	G 0.2824 0.2797 0.2862 0.2890 H 0.2796	
2C 0.2760 0.2779 0.2826 0.2807 2C 0.2779 0.2798	G 0.2390 0.2366 0.2441 0.2465 H 0.2366 0.2340	2D 0.2807 0.2826 0.2873 0.2854 2D 0.2826 0.2845	G 0.2465 0.2441 0.2516 0.2540 H 0.2441 0.2415	2E 0.2854 0.2873 0.2915 0.2898 2E 0.2873 0.2892	G 0.2540 0.2516 0.2585 0.2610 H 0.2516 0.2490	2F 0.2898 0.2915 0.2955 0.2940 2F 0.2915 0.2933	G 0.2610 0.2585 0.2652 0.2679 H 0.2585 0.2557	2G 0.2940 0.2955 0.2994 0.2980 2G 0.2955 0.2970	G 0.2679 0.2652 0.2719 0.2746 H 0.2652 0.2655	2H 0.2980 0.2994 0.3035 0.3022 2H 0.2994 0.3007	G 0.2746 0.2719 0.2797 0.2824 H 0.2719 0.2692	2J 0.3022 0.3035 0.3072 0.3060 2J 0.3035 0.3050	G 0.2824 0.2797 0.2862 0.2890 H 0.2796 0.2770	
2C 0.2760 0.2779 0.2826 0.2807 2C 0.2779 0.2779 0.2798 0.2845	G 0.2390 0.2366 0.2441 0.2465 H 0.2366 0.2340 0.2415	2D 0.2807 0.2826 0.2873 0.2854 2D 0.2826 0.2826 0.2845 0.2892	G 0.2465 0.2441 0.2516 0.2540 H 0.2441 0.2415 0.2490	2E 0.2854 0.2873 0.2915 0.2898 2E 0.2873 0.2892 0.2933	G 0.2540 0.2516 0.2585 0.2610 H 0.2516 0.2490 0.2557	2F 0.2898 0.2915 0.2955 0.2940 2F 0.2915 0.2933 0.2970	G 0.2610 0.2585 0.2652 0.2679 H 0.2585 0.2557 0.2625	2G 0.2940 0.2955 0.2994 0.2980 2G 0.2955 0.2970 0.3007	G 0.2679 0.2652 0.2719 0.2746 H 0.2652 0.2652 0.2625 0.2692	2H 0.2980 0.2994 0.3035 0.3022 2H 0.2994 0.3007 0.3050	G 0.2746 0.2719 0.2797 0.2824 H 0.2719 0.2692 0.2770	2J 0.3022 0.3035 0.3072 0.3060 2J 0.3050 0.3055 0.3050	G 0.2824 0.2797 0.2862 0.2890 H 0.2796 0.2770 0.2835	

CHROMATICITY DIAGRAM



BIN CODE DEFINITION



DRAWN BY	STROM	DRAWING NO.		ZSI	M-S380	6-W	
APPV'D BY	DATE	RELEASED		REVISIC	N	REV.	SHEET
L.R.	12/22/14	DATE	6/14/07	DATE	12/22/14	NO. E	3 _{OF} 5



TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



Forward Current vs. Relative Luminosity



Forward Current vs. Chromaticity Diagram



Ambient Temperature vs. Relative Luminous



Ambient Temperature vs. Allowable Forward Current



IKI	DRAWN BY L. WENGSTROM		NO. ZSM-S3806-W					
UENL COMPONENTS CORPORATION	APPV'D BY L.R.	DATE 12/22/14	RELEASED DATE	6/14/07	REVISIO DATE	» 12/22/14	NO. E	SHEET 4 OF 5



TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES (Continued)



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. <u>DO NOT</u> 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.

IKI	DRAWN BY L. WENGSTROM		DRAWING NO.		ZSN	<i>I</i> I-S380	6-W	
UENE COMPONENTS CORPORATION	APPV'D BY	DATE	RELEASED		REVISIO	N	REV.	SHEET
	L.R.	12/22/14	DATE	6/14/07	DATE	12/22/14	NO. 🗖	5 _{OF} 5

