Part No. : 1P00S6W33B0CC303

§ Standard 7.62*7.62*3.5mm diameter package.

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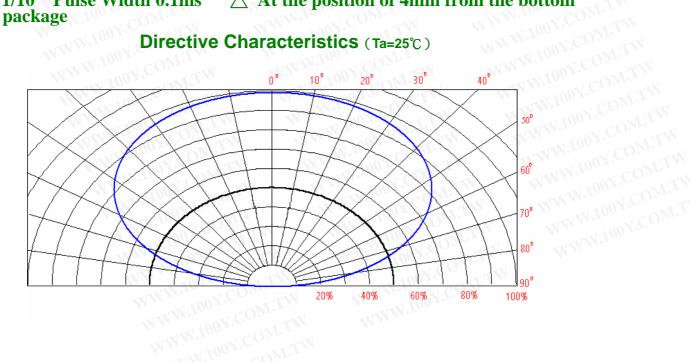
ITEM	COM.TW	MATERIALS
Resin(Mold)	V.COM.TW	Epoxy
MIN WWW.Inc	CC	Water Transparent
Lens Color Code	OY.CT	Colored Transparent
	M M	White Diffused
COM.TW WWW	100 D	Colored Diffused
Lead Frame	W.1001.	Ag Plating Copper Alloy
Dice	MM.Jon.	InGaN
(() 	- 31110	

Absolute Maximum Ratings (Ta=25℃)

lute Maximum Ratings (та=25°С)					
ltem WWW.100	Symbol	Value	Unit		
Power Dissipation	PD	120	mW		
DC Forward Current	N.CONETW	35	mA		
Pulsed Forward Current	IFP	100*	mA		
Reverse Voltage	VR	5V.100 C	V		
Operating Temperature	Topr	-30 ~ +80	°C		
Storage Temperature	Tstg	-40 ~ +100	°C		
Soldering Temperature	Tsol	260for5sec△	°C		

WWW.100Y.COM.TW \triangle At the position of 4mm from the bottom * Duty 1/10 Pulse Width 0.1ms of the package

Directive Characteristics (Ta=25℃)



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lectrical-Optical Characteristics (Ta=25℃)					胜特力电子(上海) 86-21-5415173 胜特力电子(深圳) 86-755-832987 Http://www.100y.com.tw		
Parameter	Symbol -	Value			llmit	Toot condition	
		Min.	Тур.	Max.	Unit	Test condition	
Forward Voltage	Vf	3.0	3.3	4.0	v v	I _f =30mA	
Luminous intensity	Iv CO	1300	2500	ON.COM	mcd	I _f =30mA	
Luminous Flux	LM	0.96	1.9	1007-CO	lm	lf=30mA	
Wavelength	X	CONTIN	0.3056	N.1007.C	G _{M:I,A}	I _f =30mA	
	WWW.100	CONT.	0.299	NW.100Y	COM.TW	I _f =30mA	
Reverse Current	Ir W.10	OY.CONL'	W V	10	μ A	Vr=5V	
Viewing angle	2 <i>H</i> 1/2	100 X COM	150	N.M. 10	Deg	I _f =30mA	

Specifications are subject to change without notice. WWW.100Y.C WWW.100Y.COM.TW

N 100Y.COM.TW Range of bins

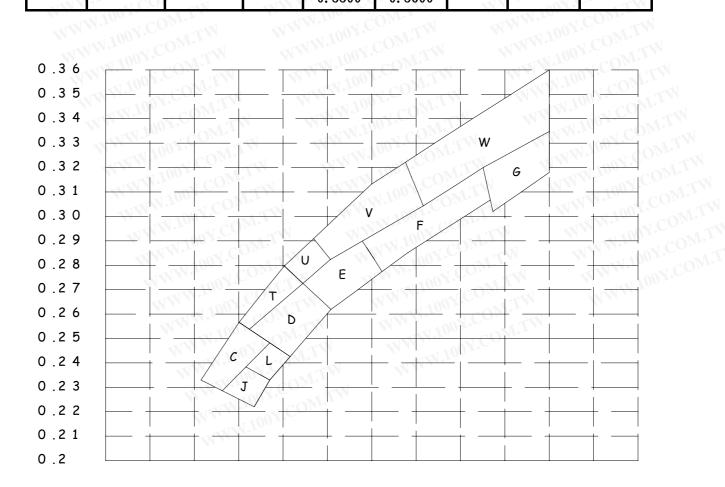
Rank(Bin 碼)	8	9*	10*	11*	12
Luminous Intensity(mlm)	960-1250	1250-1630	1630-2120	2120-2760	2760-3590
Rank(Bin 碼)	MALANTOON'S	OM.TW N	THE THE CON	CLA ALA	N.100X.CONT.
λd	M.M.M.T00.	CONTAIN CONTAIN	WWW.100X.Co	MIN W	CALM: TOOX: COM

WWW.100Y.COM.TW * Bin codes in bold are the main bins WWW.100

	WWW.100	W.COM.	白)	化正常分 BI	N圖	WIJ		
Rank	chromaticity		Rank	chromaticity		Rank	chromaticity	
	X	OOY y	Kalik	X	.100 y	M.TW	X	У
TW LTW CW	0. 2515	0. 2330	M.T.W	0. 2601	0. 2566	G	0. 3151	0.320
	0. 2563	0. 2286	OM.TW OM.TW COM.TV	0. 2624	0. 2538		0. 3173	0. 3020
	0. 2670	0. 2482		0. 2745	0. 2726		0. 3300	0.318
	0. 2600	0. 2563		0. 2703	0. 2797		0. 3300	0. 334
D E	0. 2624	0. 2538	COMPANDA COM	0. 2703	0. 2797	07.CO. 007.CO. 1007.CO. 1.007.C	0. 2563	0. 228
	0. 2716	0. 2426		0. 2745	0. 2725		0. 2635	0. 222
	0. 2808	0. 2619		0. 2807	0. 2824		0. 2670	0. 233
	0. 2745	0. 2725		0. 2769	0. 2909		0. 2616	0. 2384
	0. 2819	0. 2721	A.M.100, A.M.1AO, A.100, V.	0. 2769	0. 2909	W.100 VWV.100 VWVV.100 VWVV.100 VWVV.100 VWVV.100 VWVV.100 VWVVV.100 VWVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	0. 2616	0. 2384
	0. 288	0. 2806		0. 2807	0. 2824		0. 2670	√ 0. 233
	COM.	W		0. 3016	0.3043		0. 2716	0. 2420
	COM	W		0. 2976	N 0. 3222		0. 2670	0. 2482
WW.10	0. 2959	N 0. 2893	MAN.	0. 2976	0. 3222	MM	100 X.CO	LTW
	0. 3056	0. 299		0. 3016	0.3043	MM.	V.1007.	M.TW
	TOOX: COM	TW		0. 3300	0. 3348		N.100 1.	0 M \cdot I \cdot I \cdot I \cdot I
	100 x . CO	ULA		0. 3300	0.3600		M.100	COM

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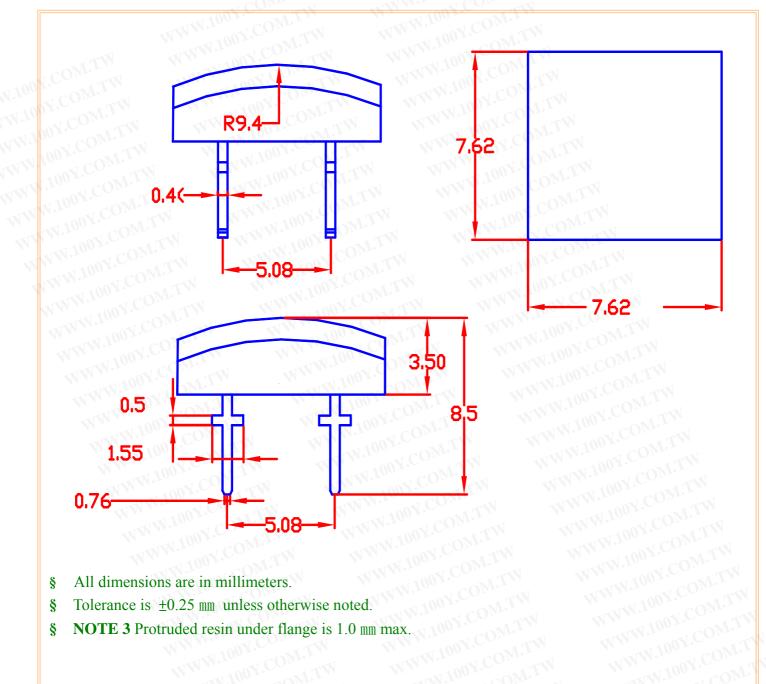


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LED Usage and Handling Instructions

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Dear valued clients:

Thank you for choose our LED products. LEDs are delicate semiconductor product that should be handle according to the below instructions.

A. Storage:

- 1. LEDs should be stored in an environment with ambient temperature of 23 \pm 5°C and relative humidity of 40 ~ 70 %.
- 2. LEDs should be used within three months of being taken out of their original packages to avoid lead frame rusting.

B. Cleaning:

1. Do not use any unidentified chemical to clean LEDs, it could damage or crack the LED epoxy surface. If necessary, soak LED in alcohol for a time not exceeding one minute in normal temperature.

C. Lead Frames Shaping & Trimming

- 1. The shaping should be done underneath the wedge point. No pressure should be exerted to the epoxy shell of the LED during shaping.
- 2. Bending of the leads should be done at a point at least 4 mm from the base of the LED lens.
- 3. Shaping of the leads should be done before soldering.
- 4. Lead trimming should only be done at normal temperature.

D. Soldering

- 1. When soldering, the soldering iron needs to be at least 2mm away from the epoxy edge. After soldering, allow at least 3 minutes for LEDs to cool back to normal temperature. Do not apply any pressure to the epoxy encapsulation or the lead frame during the soldering process.
- 2. When reflow soldering or wave soldering, please solder once for less than 5 seconds at a maximum temperature of 260°C. During the soldering process, if the temperature or timing is not controlled within limits, it would cause the epoxy to deform or cause the die or wires within the LED to be damaged.
- 3. When using soldering iron, please solder once for less than 5 seconds at a maximum temperature of 300°C. When soldering a row of LED on a PCB, please do not solder both leads of a LED in sequence. (Solder all the positive lead first, then all the negative leads)

- 4. Do not dip the epoxy encapsulation part of LED into any soldering paste liquid.
- 5. After soldering, do not adjust the location of the LED anymore.
- 6. When attaching electronic parts to a PCB with LEDs, the curing time for the whole PCB should be less than 60 seconds, at less than a temperature of 120 °C.

E. Installation

- 1. During the installation process, do not apply any pressure to the leads.
- 2. Please make sure the installation holes on the PCB matches the leads of the LED.

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F. ESD (Electrostatic Discharge)

1. LED is very sensitive to ESD; please make sure during the whole usage and installation process, that no ESD exist to affect the LED. Excessive ESD could damage the LED chip and result in performance degradation.

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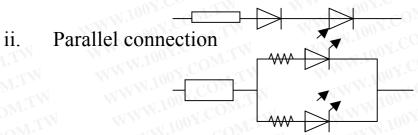
- 2. LED can also be damaged by electrical surge, please make sure any driving electrical circuits are equipped with surge protection.
- 3. During the installation process, please make sure all the equipment and personnel are grounded properly. Make use ESD protection equipment such as anti-static gloves, anti-static wrist bands, anti-static mats, anti-static clothes, anti-static shoes, and anti-static containers.
- 4. When LED come into contact with low electrical resistance metallic surfaces, the ESD could damage the LED due to sudden discharge of ESD. Please make sure all surfaces that will be in contact with LED are covered with anti-static mats (Surface electrical resistance of $10^6 \sim 10^8 \Omega/\text{sq}$). LED should be placed in anti-static containers and anti-static bags.
- 5. All soldering irons should be grounded and production environment should make use of ion-blowers.
- 6. The diameter of the dip holes on PCB should be at least 0.8mm. The distance between the centers of the two dip holes should be within ± 0.02mm of the LED lead pitch (standard LED lead pitch is 2.54mm). For special LED lead pitch specifications, the distance should be adjusted accordingly.

G. Recommended Usage Guidelines

1. Please only use 20mA (Lamp LED) and 30mA (High Flux LED) of forward current to drive LEDs whether one LED or multiple LEDs are being used.

- 2. Circuit connections
 - i. Serial connection

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- Sudden surge could damage the LED interior connections. Please design circuit with care so no sudden voltage surge or current surge will show when turning the circuit on or off.
- 4. When color or brightness uniformity is required while using multiple LEDs, the LED driver condition is critical. Our company guarantees the uniformity of the LEDs from the same bin when the driver current is 20mA (Lamp LED) and 30mA (High Flux LED)

H. Safety

- 1. Please comply with government electrical safety code while using the LEDs.
- 2. Do not look directly into a lit LED; it could damage the eyes after only a few seconds.
- 3. Do not look directly into powered UV LEDs; it could damage the eyes after only a few seconds. (UV LEDs are mainly used in currency validating machines)