

SOURCEY Product Number: YY-JY35WW1-6500K

勝特力材料 886-3-5753170
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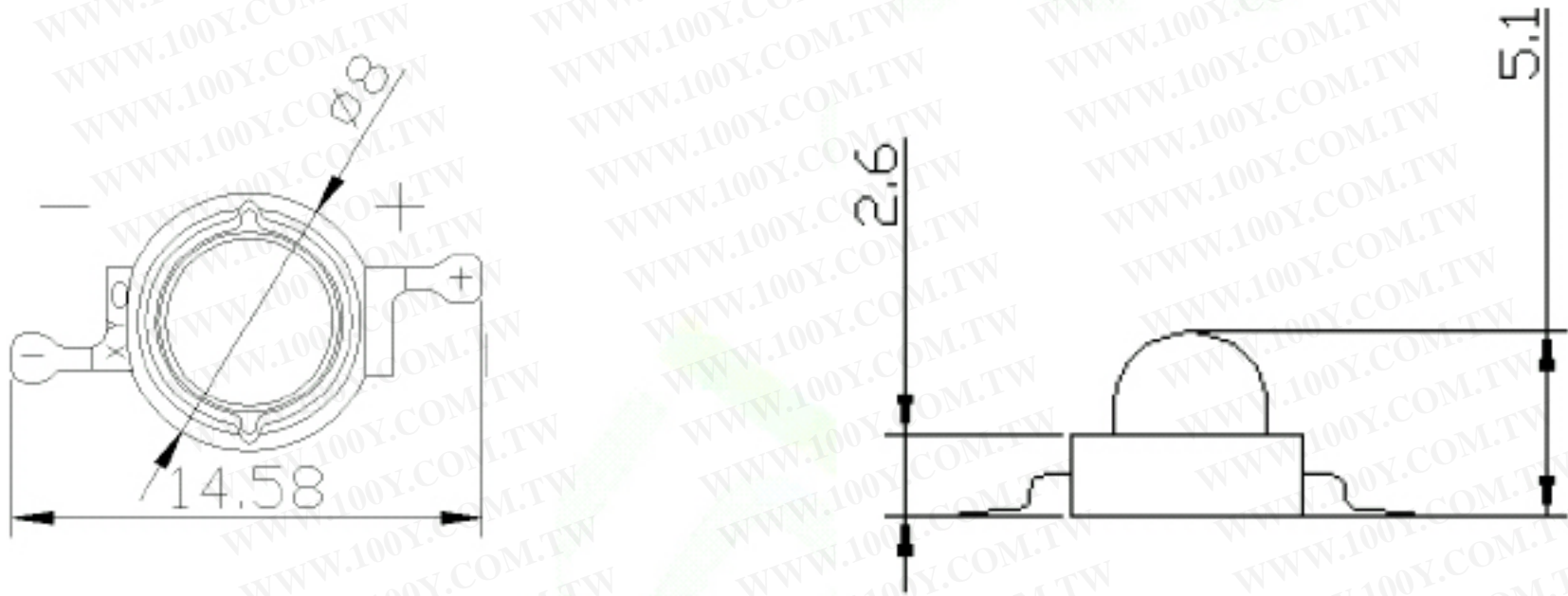
● Feature

- 1W High Power LED
- Package : SMT Package
- Half Angle ($2\theta_{1/2}$): 140°
- Colloid Color Water Clear
Mist

◆ Applications

- ◆ Commercial Lighting
- ◆ Advertisement
- ◆ Architectural Lighting
- ◆ Street Lamps

■ Package Dimensions



Notes:

- 1.All dimensions are in millimeters.
- 2.Tolerance is ± 0.25 unless otherwise noted.

MODEL No	Dice Material	Emitting Color	Package Type
	InGaN	White	molding Lens

■ Electrical/Optical Characteristics (At T_A=25°C)

Parameter	Symbol	Conditions	Min.	Avg.	Max.	Units
Luminous Flux	Φ	I _F =350mA	110		120	lm
Color Temperature	CCT	I _F =350mA	6000		7000	K
Forward Voltage	V _F	I _F =350mA	3.0		3.4	V
Color Rendering index	R _a	I _F =350mA	70			--
Thermal Resistance Junction To Board	Rθ _{J-B}	I _F =350mA		10		°C/W
50% Power Angle	2θ _½	I _F =350mA		140		deg
Reverse Current	I _R	V _R =5V			5	μA

■ Absolute Maximum Rating(At T_A=25°C)

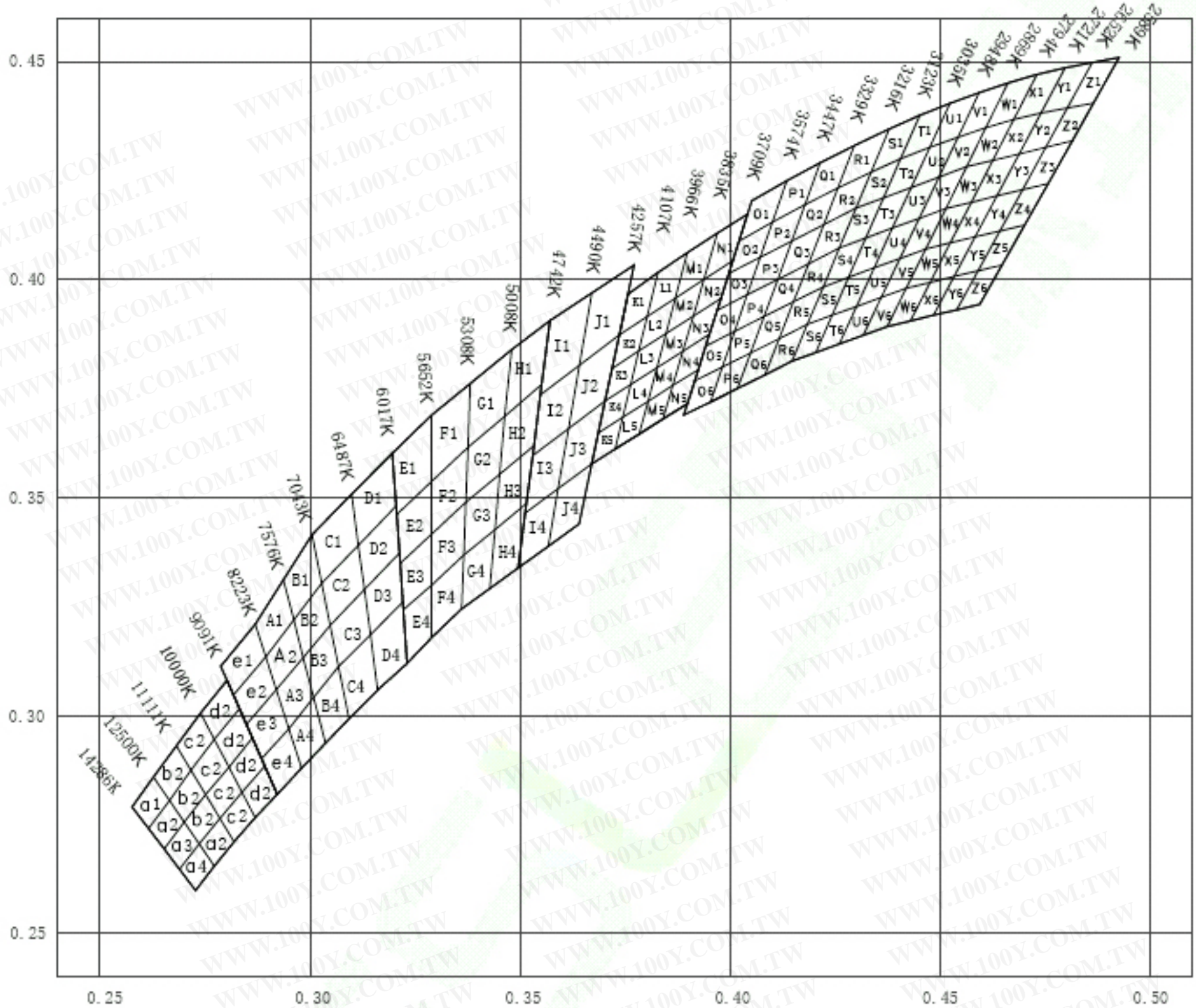
Parameter	Symbol	Ratings	Units
Power Dissipation	P _D	1.1	W
Continuous Forward Current	I _F	350	mA
Peak Forward Current ^[2]	I _F (Peak)	1000	mA
LED Junction Temperature	T _J	125	°C
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OPR}	-30°C To +60°C	
Storage Temperature Range	T _{STG}	-30°C To +60°C	
Manual Soldering Temperature	T _{SOL}	350°C± 20°C For 3 Seconds	
Soldering on a heat plat	T _{SOL}	190°C± 10°C For 20Seconds	
ESD Sensitivity	ESD	4000V HBM	

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by LED.crescen
- 2) Tolerance of measurement of luminous flux is ±10%.
- 3) Tolerance of measurement of V_f is ±0.1 V.
- 4) The product will be packaged in Anti-Static plastic box.
- 5) Please refer to High Power LED RELIABILITY TEST STANDARD for reliability test conditions.

6) Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED if necessary.

CIE Specifications



Color Ranks(IF=350mA, Ta=25°C)

a-d Ranks	1	2	3	4	e-B Ranks	1	2	3	4
	0.2577	0.2803	0.2922	0.2728		0.2788	0.3004	0.3093	0.2922
	0.2791	0.3081	0.282	0.2599		0.3114	0.3414	0.2993	0.282
C-D Ranks	1	2	3	4	E-F Ranks	1	2	3	4
	0.3004	0.3196	0.3231	0.3093		0.3196	0.3381	0.3361	0.3231
	0.3414	0.3602	0.312	0.2993		0.3602	0.3762	0.3245	0.312
G-H Ranks	1	2	3	4	I-J Ranks	1	2	3	4
	0.3381	0.3571	0.3495	0.3361		0.3571	0.3771	0.364	0.3495
	0.3762	0.3907	0.3339	0.3245		0.3907	0.4034	0.344	0.3339
K-N Ranks	1	2	3	4	O-R Ranks	1	2	3	4
	0.3756	0.4041	0.3898	0.367		0.4051	0.4378	0.4147	0.3889
	0.3967	0.415	0.3716	0.3578		0.4181	0.4346	0.3814	0.369
S-V Ranks	1	2	3	4	W-Z Ranks	1	2	3	4
	0.4378	0.466	0.4373	0.4203		0.466	0.4924	0.4593	0.4373
	0.4346	0.4452	0.3893	0.3833		0.4452	0.451	0.3944	0.3893

Measurement uncertainty of the color coordinates: ± 0.015

Reliability 可靠性

(1) Test Items And Condition

NO.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Re
1	DC Operating Life	Ta=25°C IF=350mA	1000H	50	0/1
2	Thermal Shock	-40°C/1H +100°C/1H	50 Cycles	50	0/1
3	High Temperature Operation	Ta=80°C±5°C IF=350mA	1000H	50	0/1
4	High Temperature/High Humidity	80°C/80%RH	168H	50	0/1
5	Low Temperature Operation	Ta=-40°C±5°C IF=350mA	168H	50	0/1
6	ESD(HBM)	2000V HBM	1 Time	50	0/1

(2) Criteria For Judging the Damage

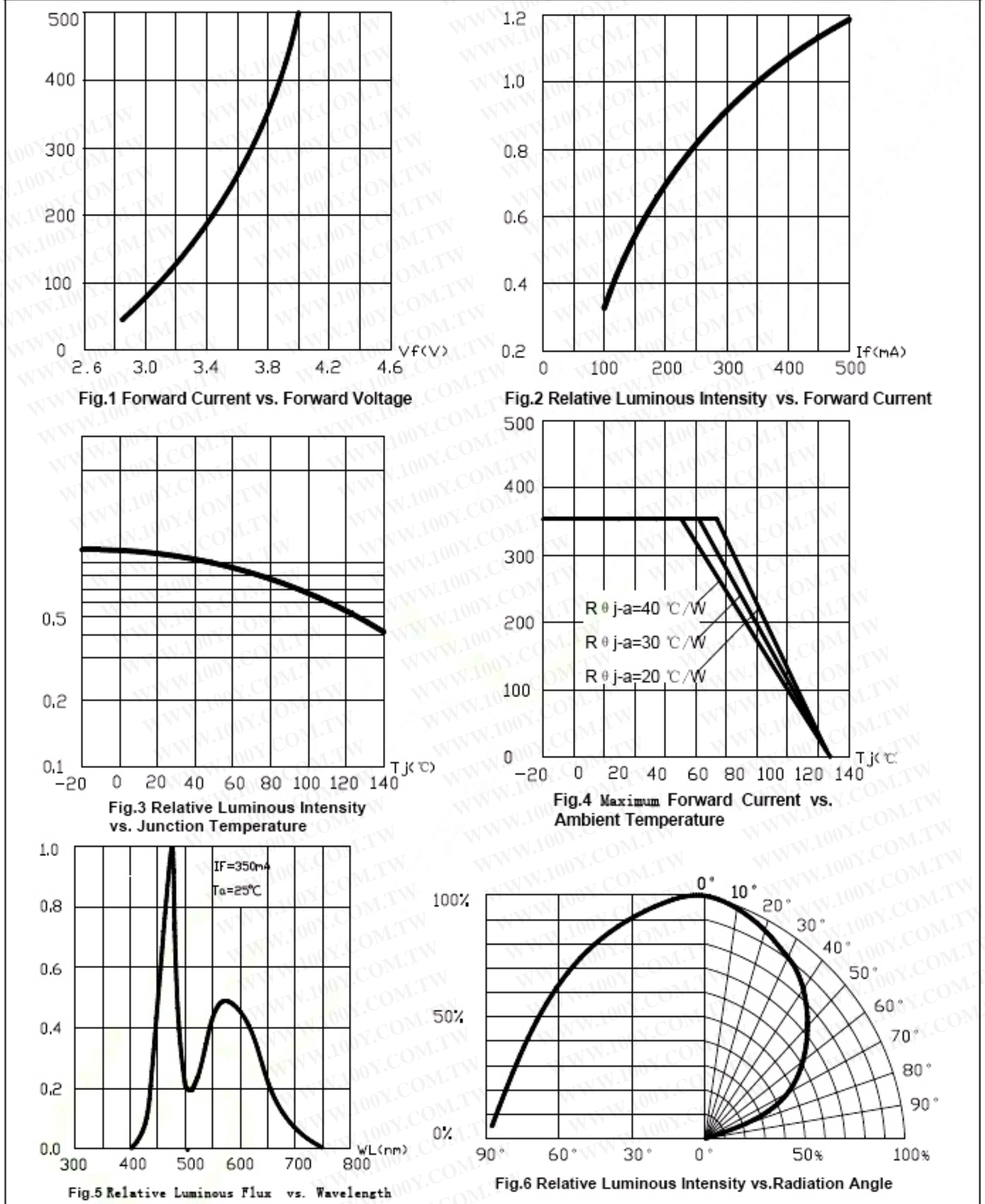
Items	Symbol	Test Condition	Limit	
			Min.	Max.
Luminous Intensity	IV	IF=350mA	L.S.L*0.8	-----
Forward Voltage	VF	IF=350mA	-----	U.S.L*1.1
Reverse Current	IR	VR=5V	-----	U.S.L*2.0

Note:

L.S.L : Lower Standard Level

U.S.L : Upper Standard Level

Characteristics Curve:



CAUTIONS :

The LEDs are devices which are materialized by combining Blue LEDs and special phosphors. Consequently the color of the LEDs is changed a little by an operating current. Care should be taken after due consideration when using LED's.

(1) Moisture Proof Package:

When moisture is absorbed into the SMT package it may vaporize and expand during soldering .There is a possibility that this can cause exfoliation of the contacts and damage to the optical characteristics of the LEDs. For this reason, the moisture proof package is used to keep Moisture to a minimum in the package.

(2) Storage Conditions

Before opening the package:

The LEDs should be kept at 30°C or less and 60%RH or less. The LEDs should be used within a year. When storing the LEDs, moisture proof packaging with absorbent material (silica gel) is recommended.

After opening the package:

The LEDs should be kept at 30°C or less and 50%RH or less. The LEDs should be soldered within 168 hours (7days) after opening the package. If unused LEDs remain, they should be stored in moisture proof packages, such as sealed containers with packages of moisture absorbent material (silica gel).It is also recommended to return the LEDs to the original moisture proof bag and to reseal the moisture proof bag again.

If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time.

Baking treatment should be performed using the following conditions.

Baking treatment : more than 48 hours at 80±5°C / 4h~12h (Humidity in accordance with the different environments)

(3) Heat Generation

Thermal design of the end product is of paramount importance. Please consider the heat generation of the LED when making the system design. The coefficient of temperature increase per input electric power is affected by the thermal resistance of the circuit board and density of LED placement on the board as well as other components.

The operating current should be decided after considering the ambient maximum temperature of LEDs.

(4) Cleaning

It is recommended that ethanol alcohol be used as a solvent for cleaning the LED 's. when using other solvents, it should be confirmed beforehand whether the solvents will dissolve the package and the resin or not. Freon solvents should not be used to clean the LEDs because of worldwide regulations.

(5) Static Electricity

Static electricity or surge voltage damages the LEDs. .

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs. All devices, equipments and machineries must be properly grounded. It is recommended that measures be taken against surge voltage to the equipment that mounts the LED's .When inspecting the final products in which LEDs were assembled. It is recommended to check. Whether the assembled LEDs are damaged by static electricity or not. It is easy to find Static-damaged LED's by a light -on test or a VF test at a lower current (below 20 mA is recommended). Damaged LEDs will show some unusual characteristics such as the leak current. Remarkably increases, the forward voltage becomes lower , or the LEDs do not light at the low Current.

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