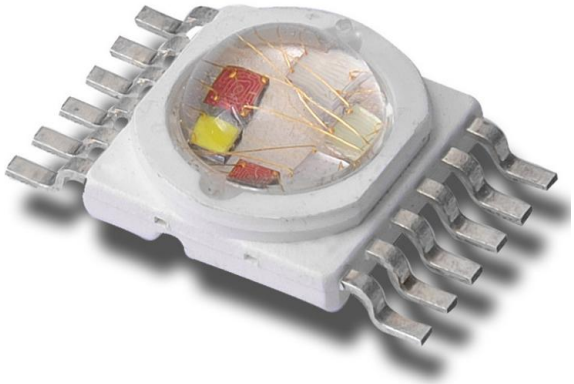
PRODUCT SPECIFICATION



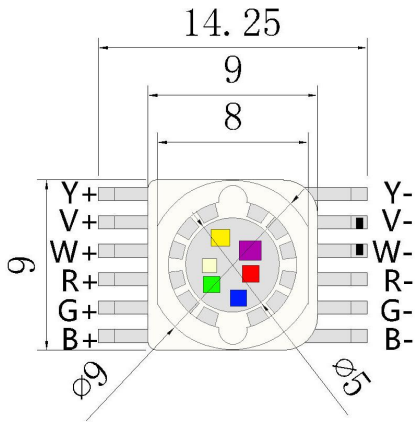
Part No.:SN-18ZRGBWZYV14G45-E6A-MA

Catalog

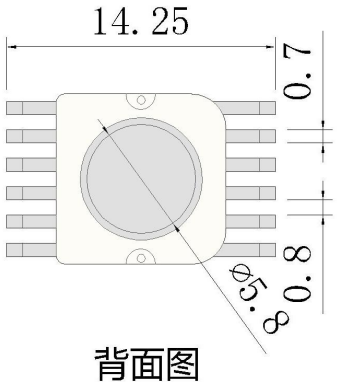
1.Product Features

- High Brightness RGBWYV LED Round Package
- Viewing Angle 140 Degree
- Transparent Silicone
- Chip Material: InGaN AlGaInP
- RoHS Compliant

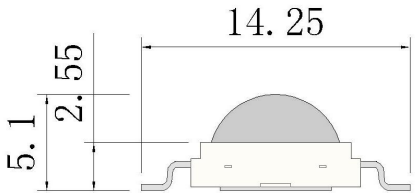
2.Dimensions



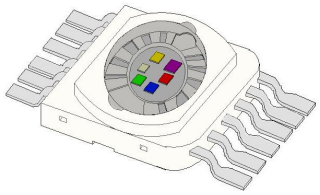
正面图



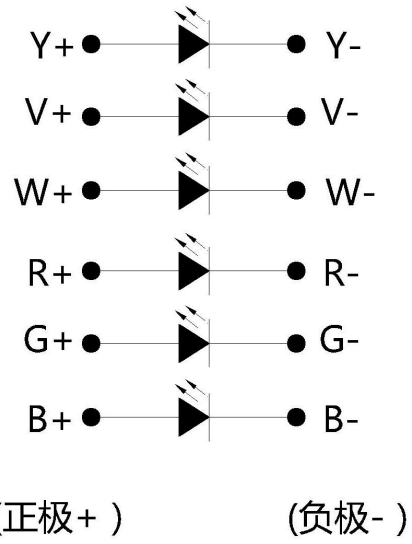
背面图



侧面图



透视图



电路图

Notes:

1. All dimensions are in millimeters.

2. Tolerance is ±0.1mm unless otherwise noted.

3.Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	700	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1000	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	18	W
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +80°C	
Storage Temperature Range	TSTG	-35°C to +100°C	
Lead Soldering Temperature	TSOL	260°C	

4.Optical Character @ Ta=25° C

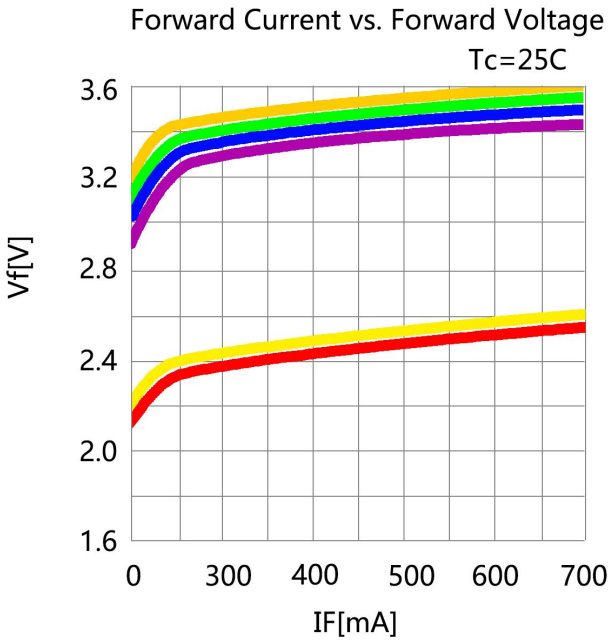
Parameter	Symbo	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	G/V	3.2	3.4	3.6	V	I_F=700mA
		B/ W	3.2	3.4	3.6	V	I_F=700mA
		R/Y	2.2	2.3	2.4	V	I_F=700mA
Luminous Flux	Φ	G/V	160/10	170/15	180/20	Lm	I_F=700mA
		B /W	40/250	50/260	60/270	Lm	I_F=700mA
		R/Y	100/90	105/95	110/100	Lm	I_F=700mA
Dominant Wavelength	Wld	G/V	520/425	522.5/427	525/430	nm	I_F=700mA
		B	460	462.5	465	nm	I_F=700mA
		R/Y	620/590	622.5/593	625/595	nm	I_F=700mA
Colour temperature	Tc	W	6000	7000	8000	K	I_F=700mA
Reverse Current	IR				10	μA	V_R=5V
Viewing Angle	2θ1/2				140	deg	I_F=700mA
Recommend Forward Current	IF(rec)	RGBWYV			700	mA	

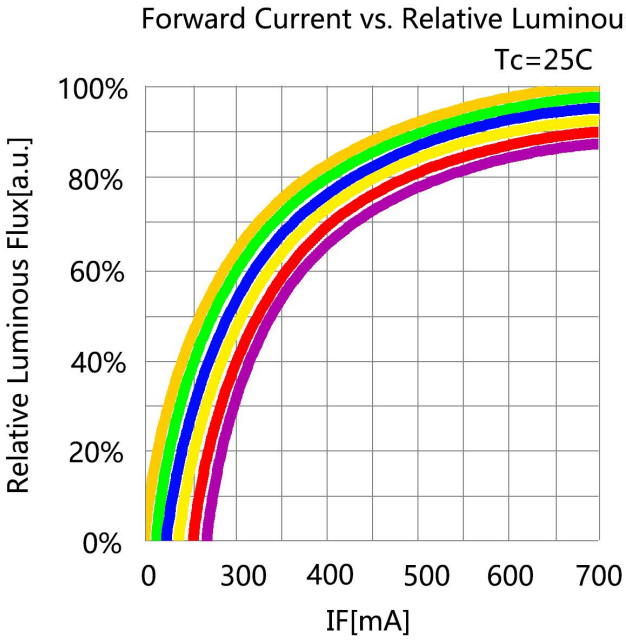
Notes:

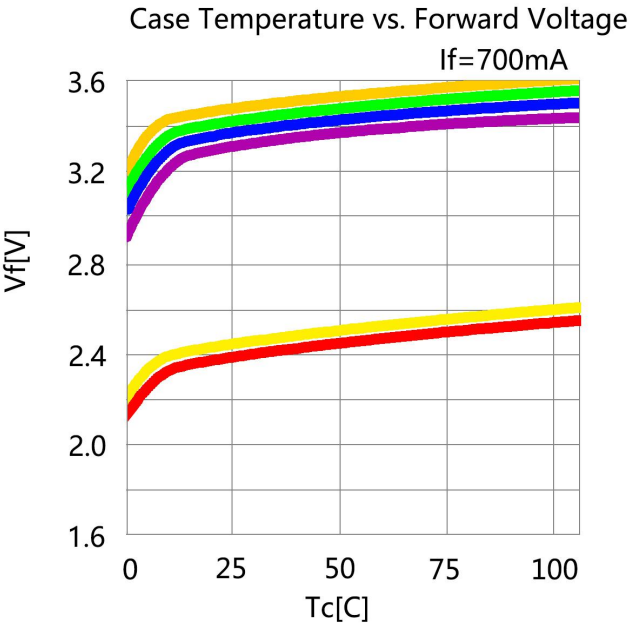
Measurement tolerance of forward voltage±0.1V

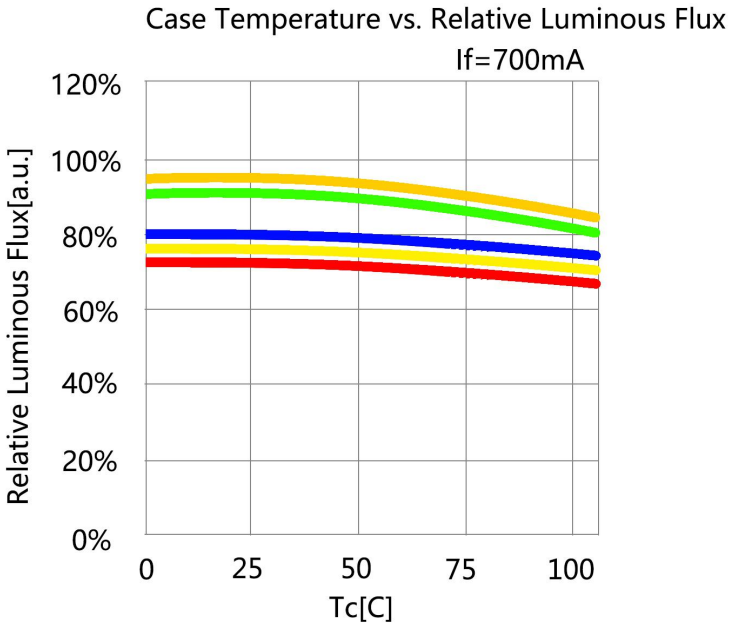
5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)

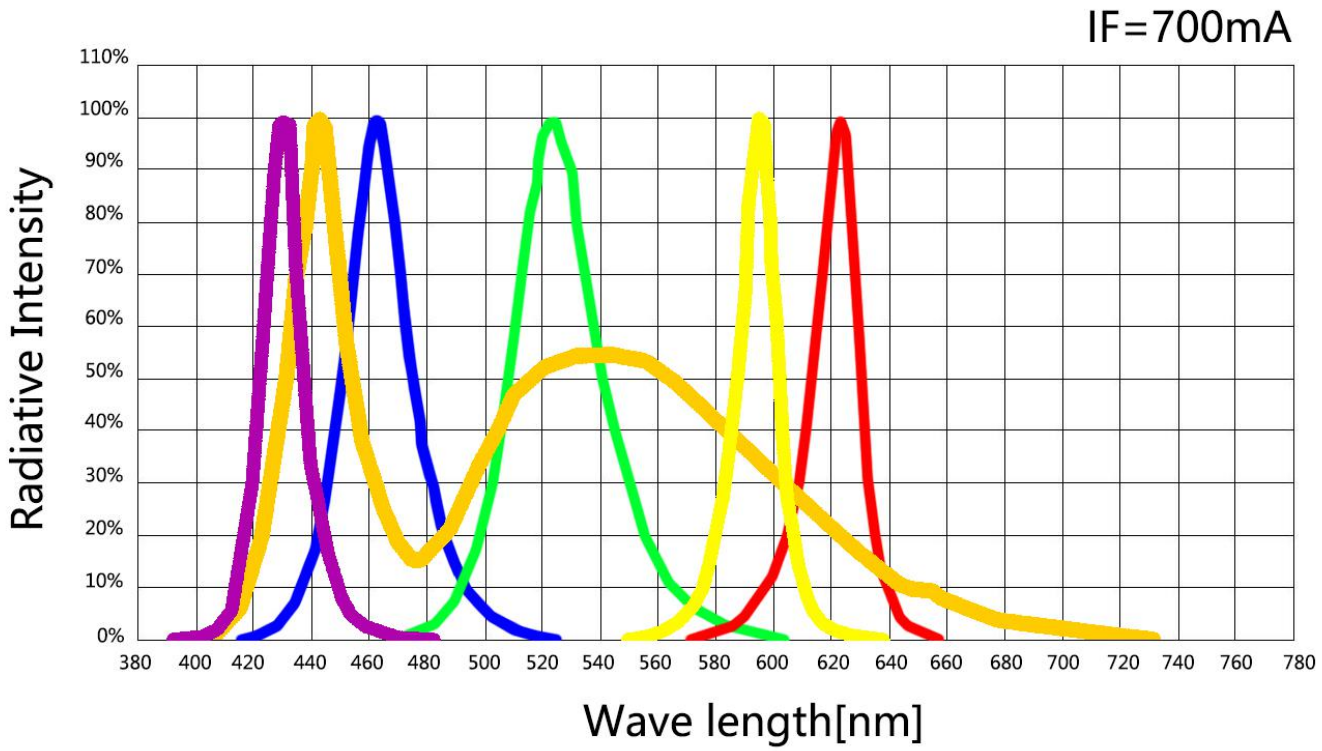




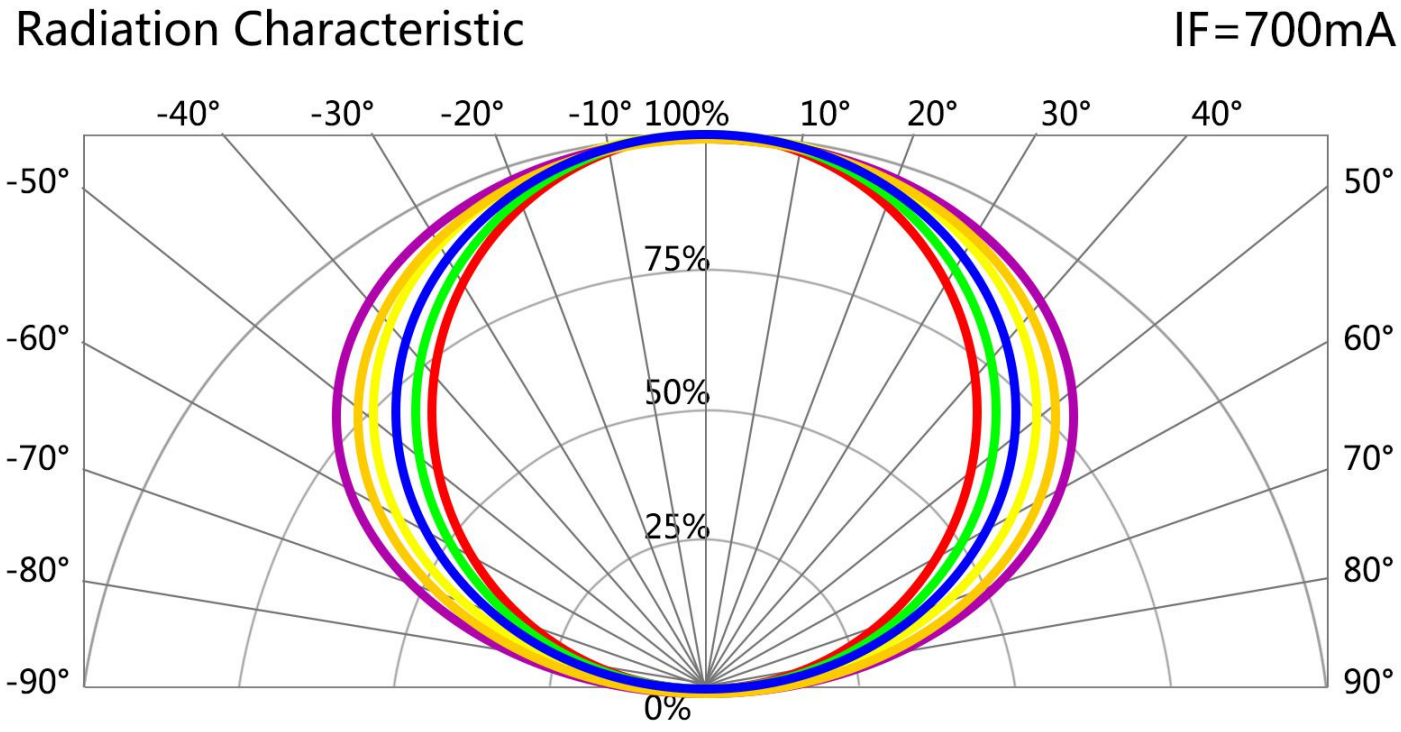




6. Spectrum Curves



7. Viewing Angle Curves



8.Tape&Reel Packing

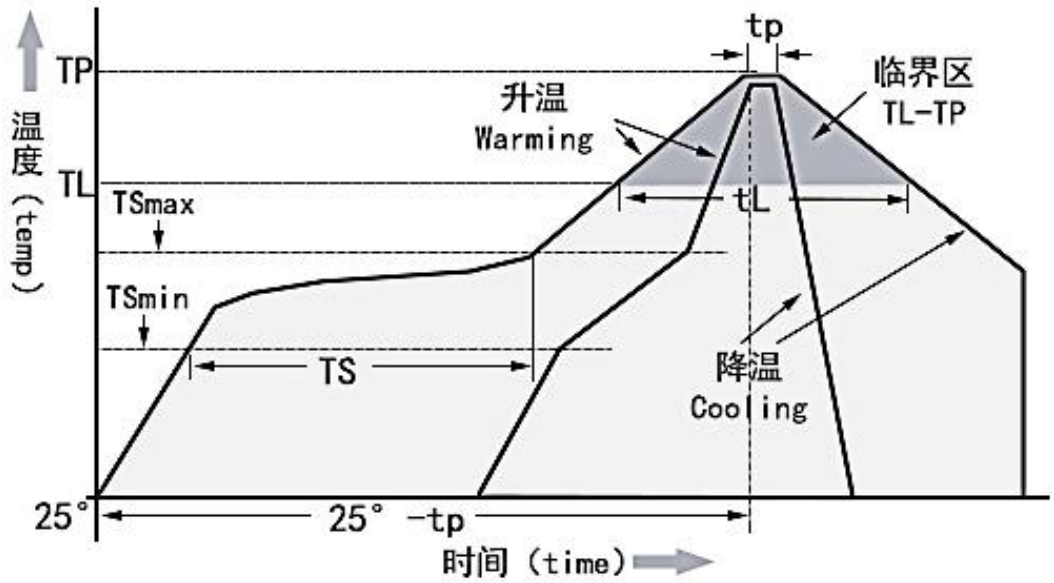
1. Recommend unpacked LED beads be welded within one day,if not,please vacuumize again and store in an environment of 20-35℃ and 30-60% humidity. If can't vacuumize,please store LED beads in moisture proof box,control at 25℃±3℃, humidity 50-60%.If unpacked above 1week,bake at 60±5℃ for 10-12 hours before weld.

Notes:

1. QTY: 1000pcs/Reel
2. Tolerance ±0.2mm.
3. Package: P/N

9.Soldering Advice

1. When soldering,don't touch the LED appearance gel during,this bad operation will destroy the LED.Moding LED usually use reflow soldering, please refer to the following reflow temperature curve , and recommend the user follow the soldering temperature curve of the solder paste.



Temperature Curve Character	Lead-free solder
Average heating rate(TSmin to Tp)	最高 3℃/秒 Top 3 ℃ / s
Preheating: Minimum temperature (TSmin)	90℃
Preheating: Maximum temperature (TSmax)	200℃
Preheating: Time (TSmin to TSmax)	60-180 s
Duration above temperature: Temperature TL	240℃
Duration above temperature: Time tL	60-150 s
Peak/classification temperature (Tp)	260℃
Time within 5℃ of actual peak temperature (tp)	20-40 s
Cooling speed	最高 6℃/秒 The highest 6 ℃ / s
Time to reach peak temperature at 25℃	最多 8 分钟 8 minutes Max

10.Cautions

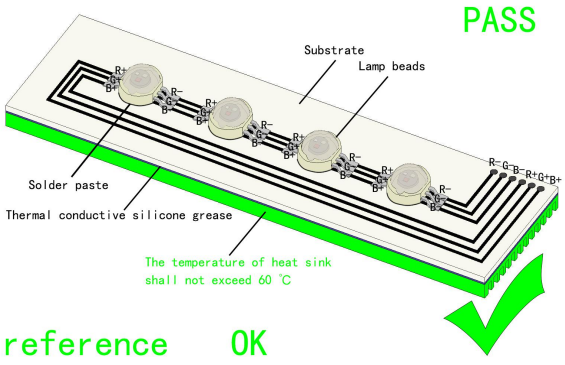
1. Electrostatic Treatment

Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)

2. Heat Dissipation

A、It is recommend to configure reasonable heat dissipation device for the product.

B、The best working temperature range of the product is 40-60°. It is recommended to control the working temperature of the product within a reasonable range.



3. Installation Conditions

A、Do not exert any pressure on the LED area during the use of the led beads. If the machine is used to take materials, select a suction nozzle of reasonable size,such as below: