

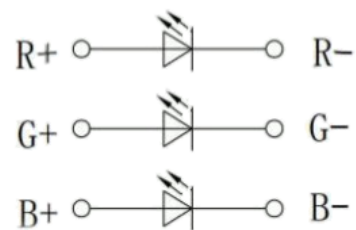
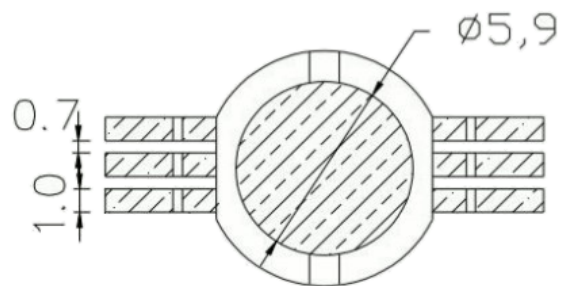
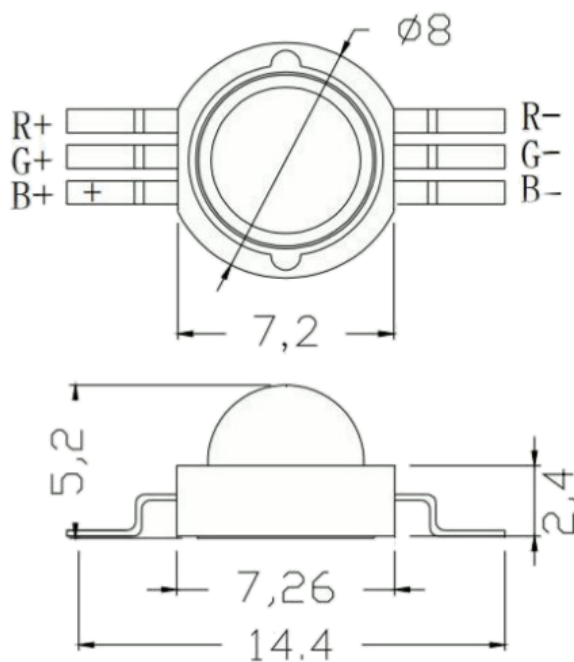
Winger Electronics WEPRGB3-E1 3W RGB Power LED



Description

- 3x 1W Power LED
- Emitting Color: Red, Green, Blue

Dimension figure



Unit: mm
Tolerances: $\pm 0.25\text{mm}$

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	3x 350	mA
Peak Forward Current *	I_{FP}	3x 600	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_O	3	W
Operating Temperature	T_{OPR}	-25 ~ +85	°C
Storage Temperature	T_{stg}	-35 ~ +105	°C
Lead Soldering Temperature (3mm from epoxy bulb)	T_{SOL}	Max. 5 sec @ 260	°C

* I_{FP} Conditions: 1/10 Duty Cycle, 0.1ms Puls Width

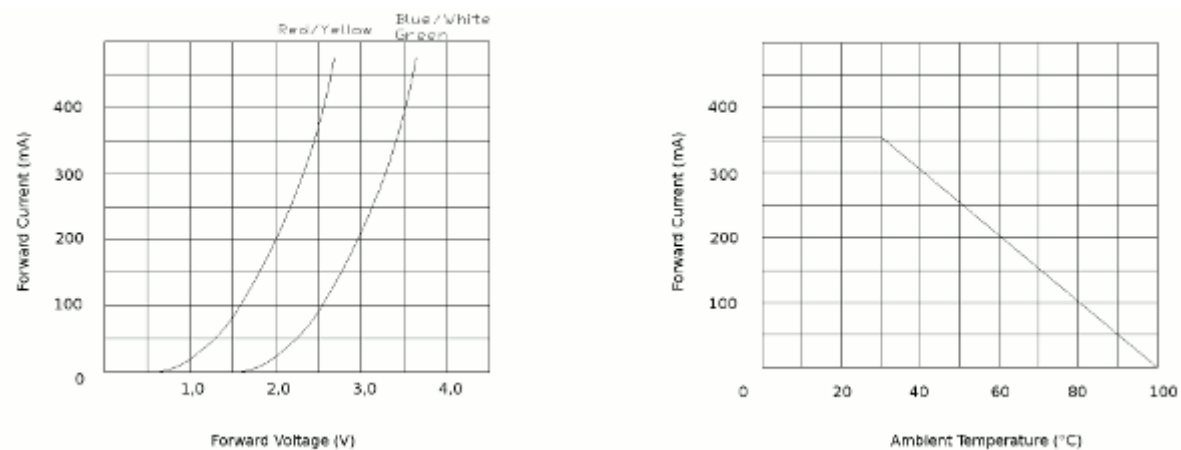
Typical Optical/Electrical Characteristics

Item	Symbol	Condition		Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =350mA	Red	2	2,3	2,6	V
			Green	3	3,2	3,6	
			Blue	3	3,2	3,6	
50% Power Angle				-	120	140	deg
Luminous Intensity	I _V		Red	40	45	50	lm
			Green	60	65	70	
			Blue	15	20	25	
Dominant Wavelength	λ _D		Red	620	625	630	
			Green	520	525	530	nm
			Blue	460	465	470	
Recommended Forward Current	I _{F(rec)}			-	-	350	mA
Reverse Current	I _R	V _R =5V		-	-	10	μA

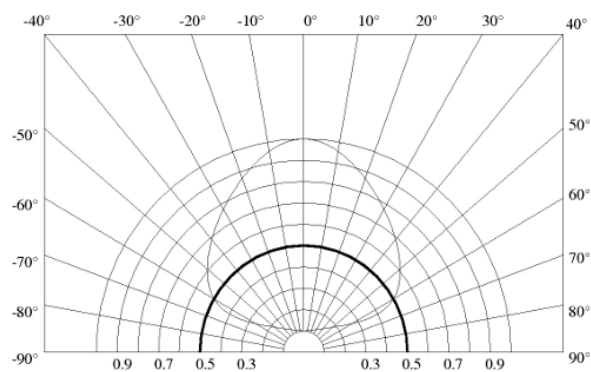
Notes:

1. It's strongly recommended to limit die temperature to 55°C
2. Absolute maximum ratings $T_a=25^\circ C$
3. Measurement Tolerances of Forward Voltage $\pm 0.1V$
4. Measurement Tolerances of peak wavelength $\pm 2.0nm$
5. Measurement Tolerances of luminous intensity $\pm 15\%$
6. Measurement Tolerances of angle intensity $\pm 15\%$

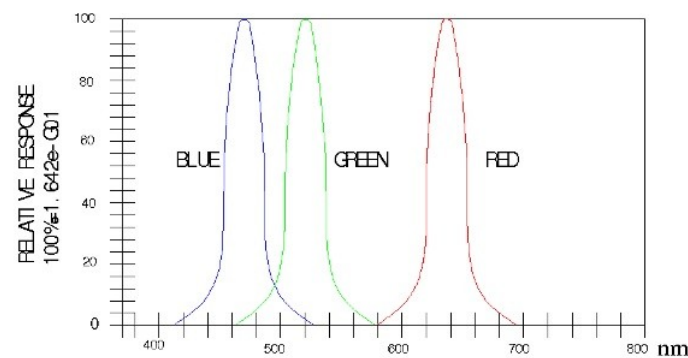
Typical electrical and optical characteristics



Spatial Distribution



Spectrum



Warranty

- (1) Perform an acceptance inspection on arrival of the goods. Return the defectives if any stipulating the disqualification and quantity.
- (2) Embedding the LEDs into the application and the verification of life and other qualities in practical use shall be executed by user.
- (3) Do not use the LEDs for the applications that require the higher reliability and security and that may endanger life and health by the breakdown and the malfunction. Seller shall not bear any responsibility or liability with respect to any claims and damages caused by user's usage of the LEDs without following our intended purpose or any written consent.
- (4) Seller shall not bear responsibility for any damages or defects caused by improper operation at the current in excess of the absolute maximum ratings that are not covered by warranty.