

Winger Electronics WEDRGB02-UM 4.8mm Straw-Hat Color Changing RGB LED

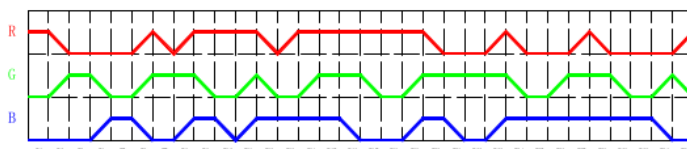
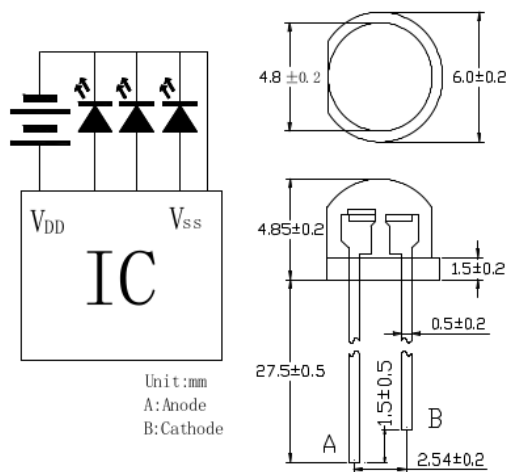

ATTENTION
 OBSERVE PRECAUTIONS
 FOR HANDLING
 ELECTROSTATIC
 SENSITIVE DEVICES



Description

- 4.8mm DIP LED
- Emitting Color: Red, Green, Blue

Circuit, Dimensions and Pattern



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

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	40	mA
Peak Forward Current *	I_{FP}	120	mA
Operating Voltage	V_o	4,5	V
Power Dissipation	P_O	150	mW
Cycle time	T_{cyc}	30	s
Operating Temperature	T_{OPR}	-20 ~ +50	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Lead Soldering Temperature **	T_{SOL}	Max. 5 sec @ 260	°C

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

** >3mms from base of epoxy bulb

Typical Optical/Electrical Characteristics

Item	Symbol	Condition		Min.	Typ.	Max.	Unit
50% Power Angle				-	120	-	deg
Luminous Intensity	I_v		Red	400	500	650	mcd
			Green	1000	1200	1500	
			Blue	600	750	900	
Dominant Wavelength	λ_D		Red	620	625	630	nm
			Green	515	520	525	
			Blue	460	465	470	
Recommended Forward Current	$I_{F(rec)}$			-	-	20	mA
Reverse Current	I_R	$V_R=5V$		-	-	5	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 $\pm 15\%$

7. 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.