

# Winger Electronics WEERG01-D1M 5mm Bicolor LED

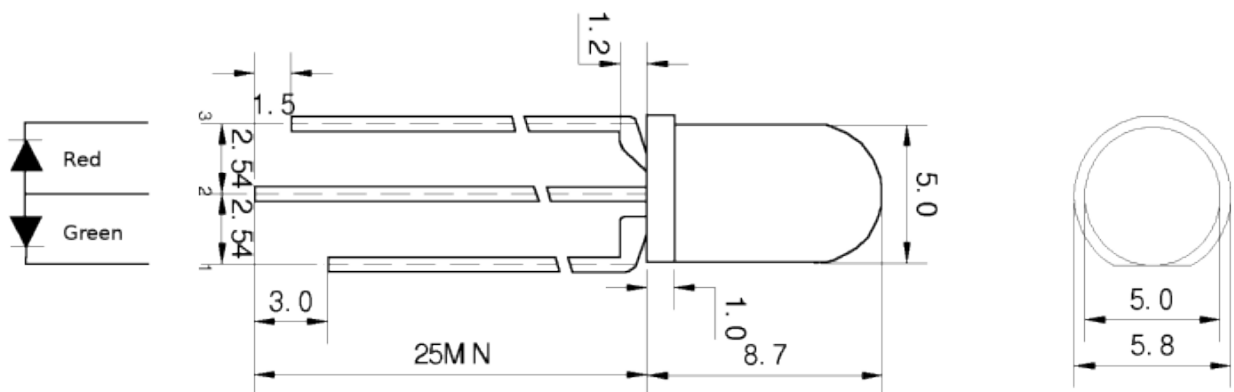
  
**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
SENSITIVE DEVICES



## Description

- 5mm Bicolor LED
- Common anode
- Emitting Color: Red, Green

## Dimension figure



Unit: mm  
Tolerances:  $\pm 0.25$ mm

## Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	$I_F$	2x 30	mA
Peak Forward Current *	$I_{FP}$	2x 70	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_O$	100 (green)	mW
		70 (red)	
Operating Temperature	$T_{OPR}$	-20 ~ +50	°C
Storage Temperature	$T_{stg}$	-40 ~ +80	°C
Lead Soldering Temperature	$T_{SOL}$	Max. 5 sec @ 260	°C

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

\* $T_{SOL}$  Conditions: 3mm space from epoxy base

## Typical Optical/Electrical Characteristics

Item	Symbol	Condition		Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F=20mA$	Red	1,8	2	2,5	V
			Green	3	3,1	3,6	
50% Power Angle			-	100	-	deg	
Luminous Intensity	$I_V$		Red	-	-	880	mcd
			Green	-	-	1000	
Dominant Wavelength	$\lambda_D$		Red	-	625	-	nm
			Green	-	520	-	nm
Recommended Forward Current	$I_{F(rec)}$			-	-	20	mA
Reverse Current	$I_R$	$V_R=5V$		-	-	10	$\mu A$

### Notes:

1. It's strongly recommended to limit die temperature to 60°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  $\pm 15\%$

## **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.