Winger Electronics WEBRD05-DW 3mm diffused red DIP LED



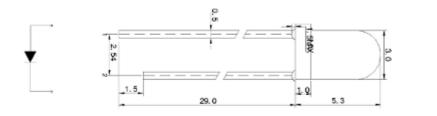


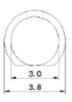


Dimension figure

Description

- 3mm DIP LED
- Emitting Colour: Red
- Package Colour: White diffused





Unit: mm Tolerances: ±0.25mm

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	30	mA
Peak Forward Current *	I _{FP}	100	mA
Reverse Voltage	VR	5	V
Power Dissipation	Po	80	mW
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

Typical Optical/Electrical Characteristics

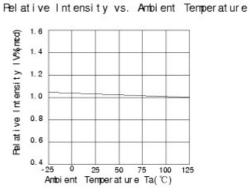
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F		1,9	2,1	2,4	V
50% Power Angle			-	40	-	deg
Luminous Intensity	Iv		3000	-	4500	mcd
Dominant Wavelength	λ_{D}		620	-	630	nm
Color Temperature	Тс		-	-	-	K
Recommended Forward Current	I _{F(rec)}		-	-	20	mA
Reverse Current	I _R	V _R =5V	-	-	20	μA

Notes:

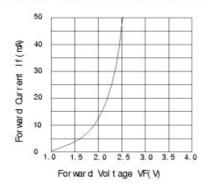
- 1. It's strongly recommended to limit die temperature to 55°C
- 2. Absolute maximum ratings Ta=25°C
- 3. Measurement Tolerances of Forward Voltage ±0.1V
- 4. Measurement Tolerances of peak wavelength ±2.0nm
- 5. Measurement Tolerances of luminous intensity ±15%
- 6. Measurement Tolerances of angle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

Typical electrical and optical characteristics

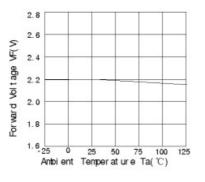
Forward Ourrent vs. Anbient Temperature



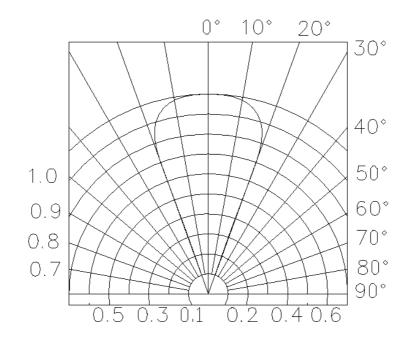
Forward Ourrent vs. Forward Voltage



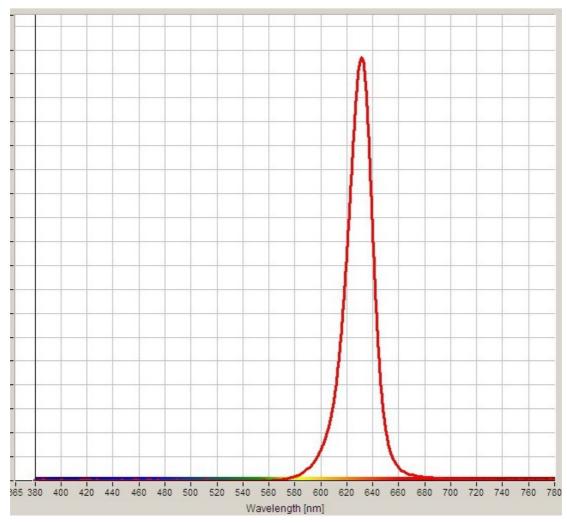
Forward Voltage vs. Ambient Temperature



Spatial Distribution



Spectrum



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.