Winger Electronics WESRD04-CS 5mm red 12V DIP LED



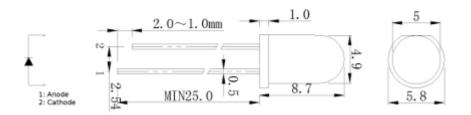




Description

- 5mm 12V DIP LED
- · Emitting Color: Red
- Internal resistor: LED may be connected directly to 3...23V DC

Dimension figure



Unit: mm

Tolerances: ±0.25mm

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	20	mA
Peak Forward Current *	I _{FP}	120	mA
Reverse Voltage	V_R	5	V
Power Dissipation	Po	100	mW
Operating Temperature	T _{OPR}	-30 ~ +70	°C
Storage Temperature	T_{stg}	-30 ~ +80	°C
Lead Soldering Temperature	T _{SOL}	Max. 5 sec @ 260	°C

*I_{FP} Conditions: 1/10 Duty Cycle, 10ms Puls Width *T_{SOL} Conditions: 3mm space from epoxy base

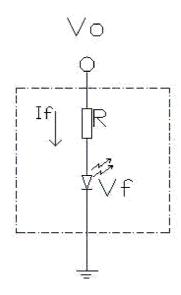
Typical Optical/Electrical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Supply Voltage	V _F	V _F =12V	3	12	23	V
50% Power Angle			-	30	-	deg
Luminous Intensity	I _V		-	2700	3800	mcd
Dominant Wavelength	λ_{D}		620	-	625	nm
Color Temperature	Tc		-	-	-	K
Forward Current	I _{F(rec)}		-	10	20	mA
Reverse Current	I _R	V _R =5V	-	-	5	μA

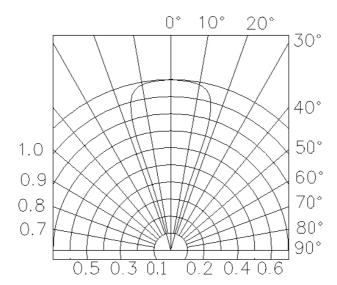
Notes:

- 1. It's strongly recommended to limit die temperature to 55°C
- 2. Absolute maximum ratings 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%

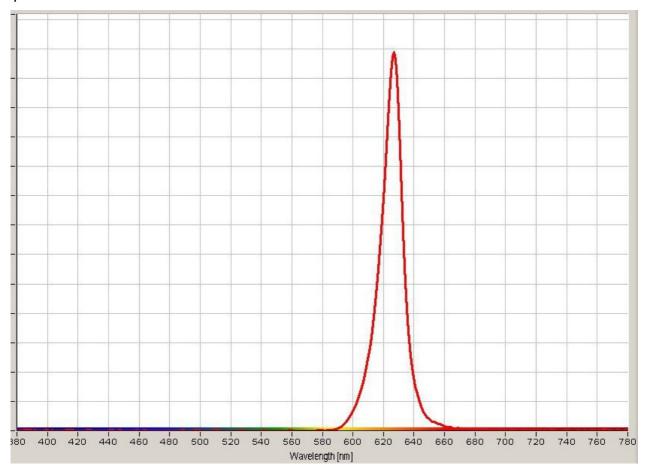
Typical electrical and optical characteristics



Spatial Distribution



Spectrum



7. Warranty

Perform an acceptance inspection on arrival of the goods. Return the defectives if any stipulating the disqualification and quantity.

Embedding the LEDs into the application and the verification of life and other qualities in practical use shall be executed by user.

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.