

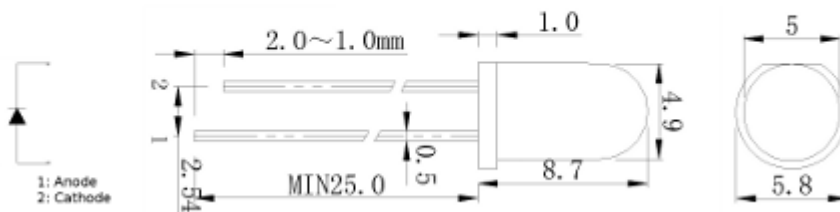
Winger Electronics
WEEIR00-CS
5mm infrared DIP LED



Description

- 5mm DIP LED
- Emitting Color: infrared 940nm

Dimension figure



Unit: mm
Tolerances: ± 0.25 mm

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	50	mA
Peak Forward Current *	I_{FP}	50	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_O	150	mW
Operating Temperature	T_{OPR}	-25 ~ +80	°C
Storage Temperature	T_{stg}	-35 ~ +105	°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

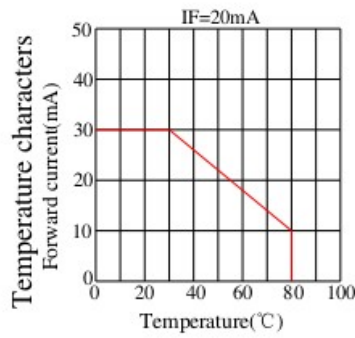
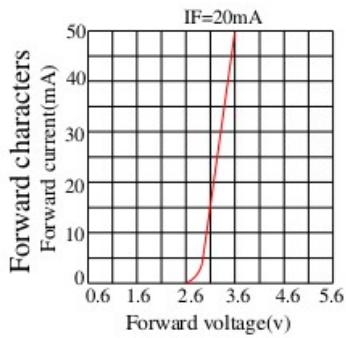
Typical Optical/Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F		1.2	1.5	1.8	V
50% Power Angle			-	26	-	deg
Luminous Intensity	I_v		-	40	125	mW/cm ²
Dominant Wavelength	λ_D		-	940	-	nm
Color Temperature	T_c		-	-	-	K
Recommended Forward Current	$I_{F(rec)}$		-	-	20	mA
Reverse Current	I_R	$V_R=5V$	-	-	1	μA

Notes:

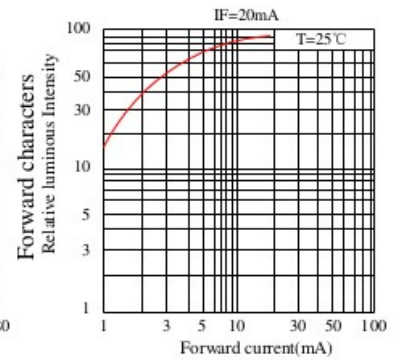
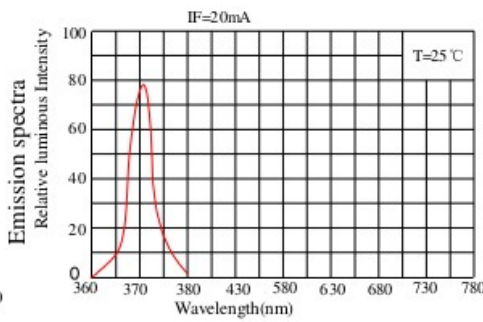
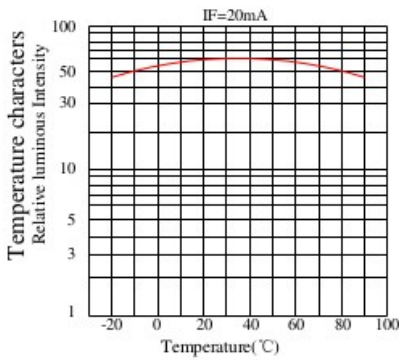
1. It's strongly recommended to limit die temperature to 55°C
2. Absolute maximum ratings $T_a=25^\circ C$
3. Measurement Tolerances of Forward Voltage $\pm 0.1V$
4. Measurement Tolerances of peak wavelength $\pm 2.0nm$
5. Measurement Tolerances of luminous intensity $\pm 15\%$
6. Measurement Tolerances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

Typical electrical and optical characteristics

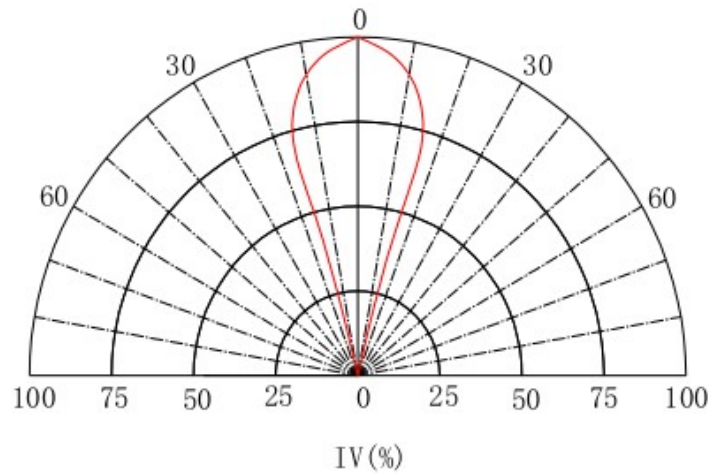


Notes:

The data are an typical presentation of the product, Contact customer service for details of technical information and warranty.
 The product is sensitive to static antistatic operation environment is recommended
 Products are shipped in either bulk bag package or taping.



Spatial Distribution



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.