Winger Electronics WERGN15-C1M PLCC6 SMD LED



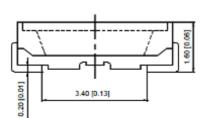


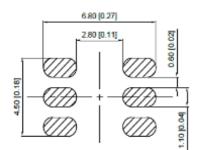


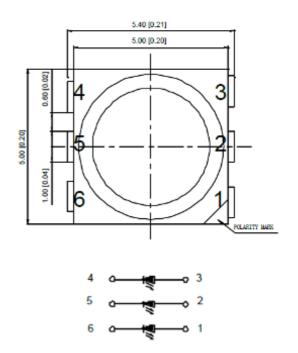
Dimension figure

Description

- PLCC6 SMD LED
- Emitting Color: Green







Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	3 * 30	mA
Peak Forward Current *	I _{FP}	3 * 100	mA
Reverse Voltage	VR	5	V
Power Dissipation	Po	315	mW
Operating Temperature	T _{OPR}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{SOL}	Max. 3 sec @ 300	°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	VF		2,8	3	3,4	V
50% Power Angle		l _⊧ = 3 * 20mA	-	120	-	deg
Luminous Intensity	Iv		9	-	15	lm
Dominant Wavelength	λ _D		515	520	525	nm
Color Temperature	Тс		-	-	-	K
Recommended Forward Current	I _{F(rec)}		-	-	3 * 20	mA
Reverse Current	I _R	V _R =5V	-	-	10	μA

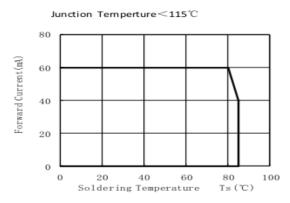
Notes:

- 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 $\pm 15\%$

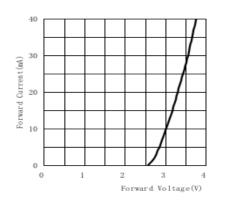
Typical electrical and optical characteristics

(valid for all 3 chips inside)

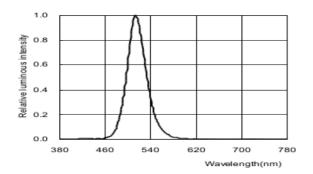
Ambient Temperature vs. Forward Current



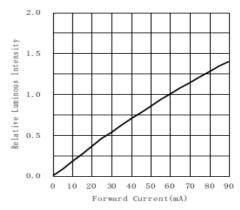




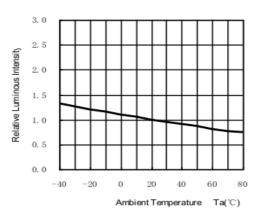
Relative spectral emission



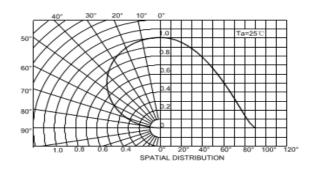
Forward Current VS. Relative Intensity



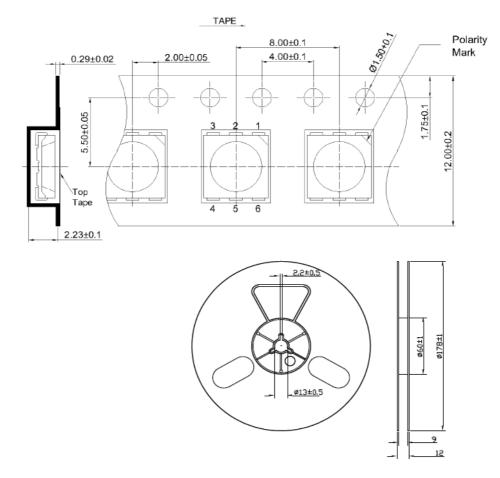
Ambient Temperature VS. Relative Intensity



Radiation diagram

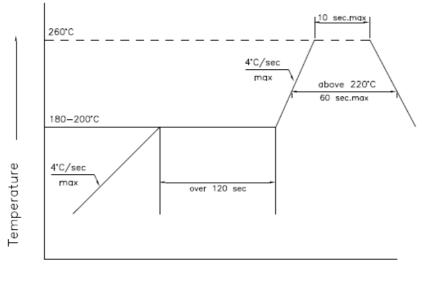


Tape reel dimensions



Loaded QTY 1000pcs per reel

Reflow soldering profile



Time _____

Manually soldering

Max. 300°C @ 3secs.

Storage

- 1. Do not open moisture proof bag before ready to use
- 2. Before opening the package, LEDs should be kept at 30°C or less and 80% RH or less.
- 3. After opening the package, LEDs should be kept at 30°C or less and 60% RH or less.
- 4. The LEDs should be used within one year.
- 5. The LEDs should be used within 72 hours after opening the package (MSL-Level 4)
- 6. If the silica gel bag has fabled away or storage time has exceeded, baking treatment should be performed. Conditions: 70±3°C for 24 hours.

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.