## **Winger Electronics** WELGN01-C1M 0402 SMD LED



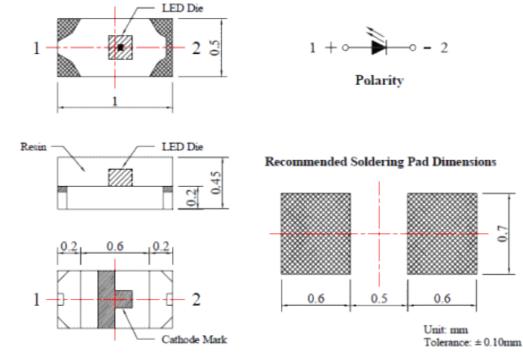
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#### **Description**

- 0402 SMD LED •
- **Emitting Color: Green** •



Soldering terminal may shift in x, y direction.
Polarity referring onto the cathode mark is reversed on the UR/HR/SR.

# **Dimension figure**

#### **Absolute Maximum Ratings**

ltem	Symbol	Absolute Maximum Rating	Unit
Forward Current	I <sub>F</sub>	25	mA
Peak Forward Current *	<b>I</b> <sub>FP</sub>	100	mA
Reverse Voltage	VR	5	V
Power Dissipation	Po	60	mW
Operating Temperature	T <sub>OPR</sub>	-40 ~ +80	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C
Lead Soldering Temperature	T <sub>SOL</sub>	Max. 5 sec @ 260	°C

<sup>\*</sup>I<sub>FP</sub> Conditions: 1/10 Duty Cycle, 0.1ms Puls Width

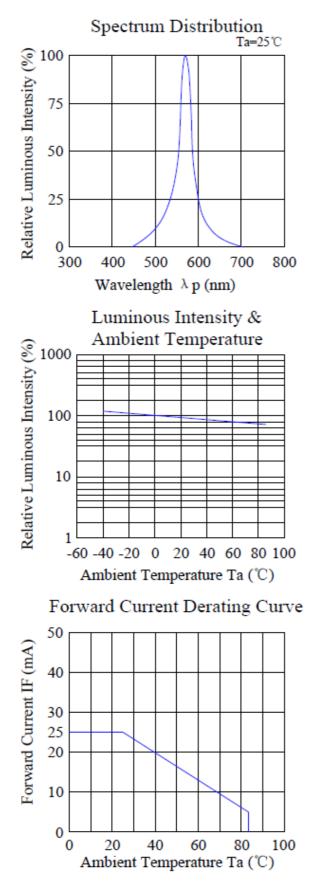
### **Typical Optical/Electrical Characteristics**

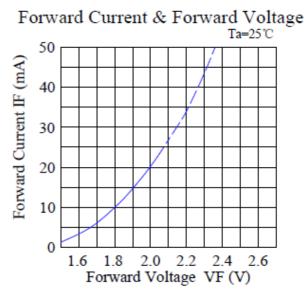
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>⊧</sub> =20mA	1,6	2	2,4	V
50% Power Angle			-	120	-	deg
Luminous Intensity	Iv		40	80	100	mcd
Dominant Wavelength	$\lambda_{D}$		-	573	-	nm
Color Temperature	Тс		-	-	-	K
Recommended Forward Current	I <sub>F(rec)</sub>		-	-	20	mA
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA

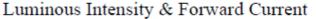
Notes:

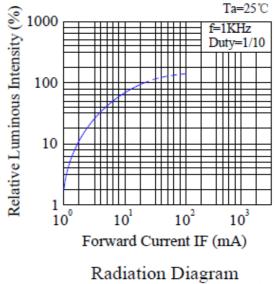
- 1. It's strongly recommended to limit die temperature to 55°C
- 2. Absolute maximum ratings Ta=25°C
- 3. Measurement Tolerances of Forward Voltage ±0.1V
- 4. Measurement Tolerances of peak wavelength ±2.0nm
- 5. Measurement Tolerances of luminous intensity ±15%
- 6. Measurement Tolerances of angle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

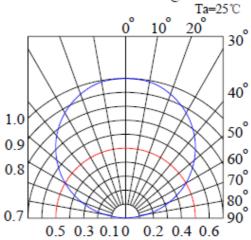
#### Typical electrical and optical characteristics



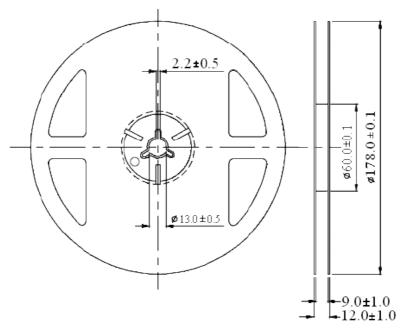






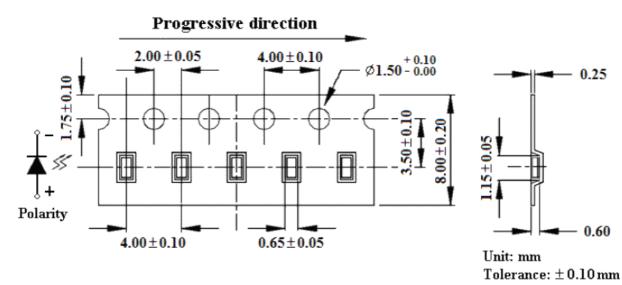


#### Tape reel dimensions



Unit: mm Tolerance:  $\pm 0.25$ mm

## Carrier Tape Dimensions:



Loaded QTY: 3000pcs per reel

#### 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.