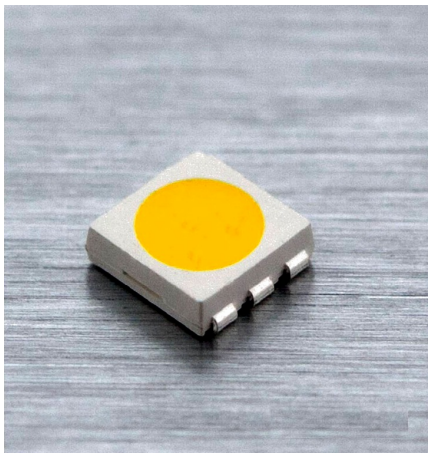
WINGER® WERWW07-CM
SMD LED PLCC6 (5060), warm white up to 20 lm, typ. 3,200 K, 120°



Item number	5060605000100
Type	WERWW07-CM
Brand	WINGER®
Package	SMD PLCC6 (5060, 5.5 × 5.0 mm)
Emitted colour	warm white
Viewing angle	120°

The WINGER® WERWW07-CM is a PLCC6 / 5060-package SMD LED (5.5 × 5.0 mm). It emits warm-white light (typ. 3200 K) at up to 20 lm with a 120° viewing angle.

SMD LEDs are used mainly in industrial applications and are also suitable for model making.

1 Optical and Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward voltage	V_F		3.2		V	I_F = 20 mA
Viewing angle (50 % power angle)	2θ½		120		°	I_F = 20 mA
Luminous flux	Φ_V			20	lm	I_F = 20 mA
Colour temperature	T_C		3,200 [1]		K	I_F = 20 mA
Recommended forward current	$I_{F(rec)}$			3 × 20	mA	

[1] Value according to the previous typ-identical datasheet version.
Measurement tolerances: forward voltage ±0.1 V [1]; luminous flux ±15 % [1].

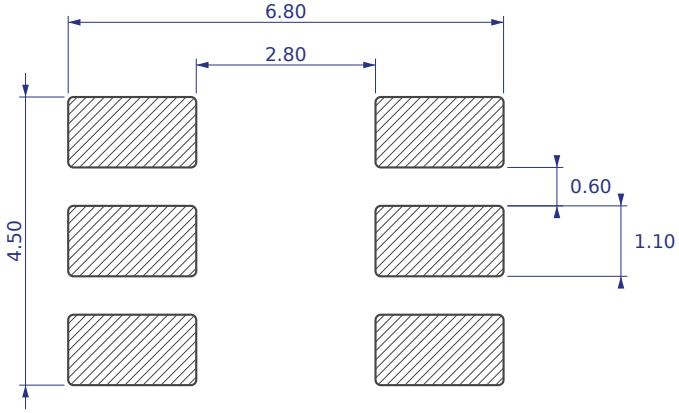
2 Absolute Maximum Ratings

Parameter	Symbol	Rating
Forward current [1]	I_F	3 × 30 mA [1]
Peak forward current (duty cycle 1/10, pulse width 0.1 ms) [1]	I_{FP}	3 × 100 mA [1]
Reverse voltage	V_R	5 V [1]
Max. power dissipation	P_D	0.315 W [1]
Operating temperature [1]	T_{OPR}	−40 … +60 °C [1]
Storage temperature [1]	T_{STG}	−40 … +85 °C [1]
Soldering temperature [1]	T_{SOL}	260 °C, max. 5 s [1]

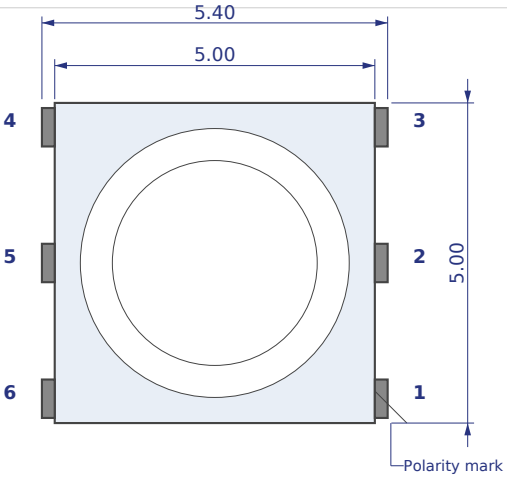
[1] Value according to the previous typ-identical datasheet version.
Absolute maximum ratings at T_A = 25 °C [1].

3 Mechanical Data

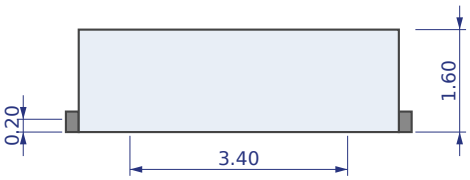
Parameter	Value
Package	SMD PLCC6 (5060, 5.5 × 5.0 mm)
Length	5.40 mm
Width	5.00 mm
Height	1.60 mm
General tolerance	±0.25 mm [1]
Polarity	pins 1, 2, 3 = cathodes; pins 6, 5, 4 = anodes
Recommended land pattern	6.80 mm insgesamt, Spalt 2.80 mm, Höhe 4.50 mm



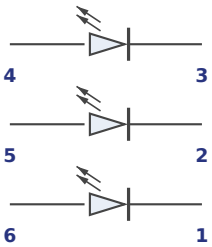
Recommended land pattern



Top view



Side view



Dimensions in mm. General tolerance ±0.25 mm [1]. Pins 1, 2, 3 = cathodes; pins 6, 5, 4 = anodes (diodes 6→1, 5→2, 4→3). Polarity marking at pin 1 shown schematically.

[1] Value according to the previous typ-identical datasheet version.

4 Ordering Information and Packaging

Parameter	Value
Item number	5060605000100
Type	WERWW07-CM
Packaging	on reel (tape & reel)
Packaging unit	1000 pcs per reel
Reel size	on request

5 Handling and Application Notes

- Always operate the LED with a current-limiting series resistor or a constant-current source – never connect it directly to a voltage source. Series resistor: $R = (U_{supply} - V_F) / I_F$.
- When connecting LEDs in parallel, use a separate series resistor for each LED or string.
- Do not exceed the absolute maximum ratings, not even briefly; avoid reverse voltage.
- Do not apply pressure to the lens / top surface; use a suitable pick-up nozzle for automatic placement.
- Do not apply mechanical stress to the LED or bend the PCB while the LED is hot (during and directly after soldering).
- Clean with isopropyl alcohol only if necessary; do not use aggressive solvents. Ultrasonic cleaning only after prior qualification.
- Do not look directly into the LED at short distance for a longer period (glare).

6 ESD Protection

Parameter	Value
ESD withstand voltage (HBM)	1,000 V [4] (HBM, ANSI/ESDA/JEDEC JS-001)

- LEDs are electrostatic-sensitive devices (ESD). Electrostatic discharge or voltage surges can damage the LED immediately or reduce its service life without visible signs.
- Handle and process only in an ESD protected area (EPA) in accordance with IEC 61340-5-1: grounded work surfaces, equipment and soldering irons, wrist straps or ESD gloves, ESD-safe packaging and transport containers.
- Keep the LEDs in their ESD-safe packaging until processing.

[4] Typical value for this LED type; not individually measured / subject to confirmation.

7 Soldering Instructions

Parameter	Value
Reflow soldering	on request
Hand soldering	max. 260 °C, max. 5 s [1]

- Recommended method: reflow soldering according to the specified profile. Hand soldering only for repair purposes.
- Do not exceed the number of permitted reflow cycles; let the board cool down before handling.
- Hand soldering: use a temperature-controlled, grounded soldering iron; do not touch the lens with the tip.

[1] Value according to the previous typ-identical datasheet version.

8 Storage

Parameter	Value
Storage temperature	−40 … +85 °C [1]
Recommended storage conditions	on request
Shelf life	on request
Moisture sensitivity level (MSL)	on request

- Store in the original packaging in a dry, clean environment free of corrosive gases. Avoid condensation and rapid temperature changes.
- Observe the moisture sensitivity level (MSL). Re-seal opened moisture barrier bags with desiccant; bake out if the permitted floor life has been exceeded.

[1] Value according to the previous typ-identical datasheet version.

9 Environmental Compliance

Parameter	Value
RoHS (EU) 2011/65/EU incl. (EU) 2015/863	compliant (Directive 2011/65/EU) [1]
REACH (EC) 1907/2006	no SVHC of the candidate list above 0.1 % (w/w) known

Declarations of conformity are available on request.

[1] Value according to the previous typ-identical datasheet version.

10 Warranty and Application Limits

- Perform an acceptance inspection on arrival of the goods; return defective items stating the defect and quantity.
- Integration of the LEDs into the application and verification of service life and other qualities in practical use shall be carried out by the user.
- Do not use the LEDs in applications requiring higher reliability and safety where failure or malfunction could endanger life or health. The seller assumes no liability for claims or damages resulting from use contrary to the intended purpose or without written consent.
- The seller assumes no responsibility for damage or defects caused by operation at currents exceeding the absolute maximum ratings; these are not covered by warranty.

Values marked [4] are typical values for this LED type and have not been individually measured for this item; they are subject to confirmation. Please contact us for binding values: info@led1.de · +49 340 8508260.

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