Winger Electronics WEQBL02-CM 3528 PLCC2 SMD LED





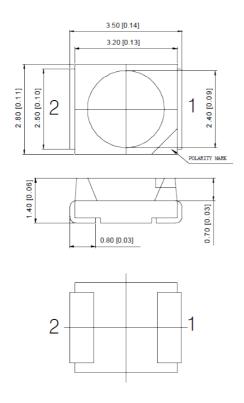


Description

PLCC2 SMD LED

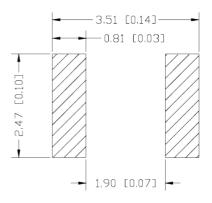
· Emitting Color: Blue

Dimension figure





Recommended Soldering Pattern



Unit: mm

Tolerances: ±0.25mm

Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I _F	30	mA
Peak Forward Current *	I _{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	Po	102	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	V _F	I _F =20mA	2,8	3	3,4	V
50% Power Angle			_	120	-	deg
Luminous Intensity	I _V		0,9	1,1	1,4	lm
Dominant Wavelength	λ_{D}		464	470	475	nm
Color Temperature	Tc		_	-	-	K
Color Rendering Index	CRI		-	-	-	Ra
Recommended Forward Current	I _{F(rec)}		-	-	20	mA
Reverse Current	I _R	V _R =5V	_	-	10	μA

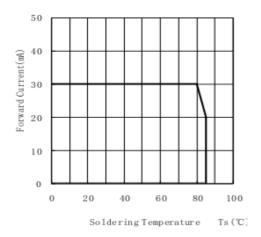
Notes:

- 1. Absolute maximum ratings Ta=25°C
- 2. Measurement Tolerances of Forward Voltage ±0.1V
- 3. Measurement Tolerances of peak wavelength ±2.0nm
- 4. Measurement Tolerances of luminous intensity ±15%
- 5. Measurement Tolerances of angle intensity ±15%

Typical electrical and optical characteristics

Ambient Temperature vs. Forward Current

Forward Current VS. Relative Intensity



2.5

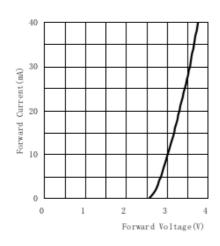
At 1 supplies 2.0

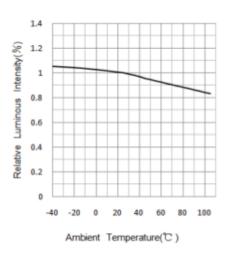
In 1.5

In 1.0

Forward Voltage VS. Forward Current

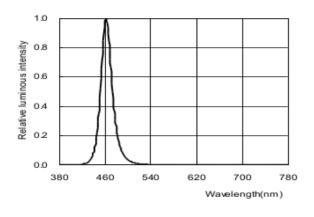
Ambient Temperature VS. Relative Intensity

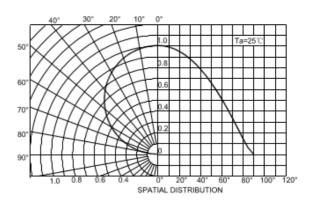




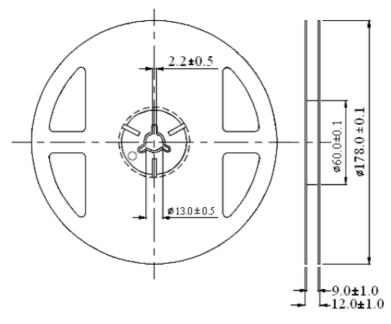
Relative spectral emission

Radiation diagram





Tape reel

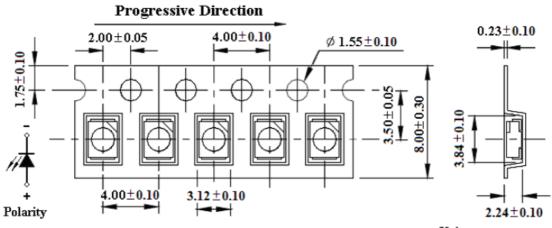


Unit: mm

 $Tolerance: \pm\,0.25\,mm$

Carrier Tape Dimensions:

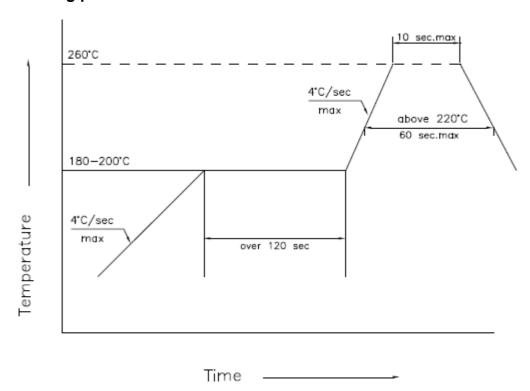
Loaded quantity 2000PCS per reel.



Unit: mm

Tolerance: $\pm 0.10\,\mathrm{mm}$

Reflow soldering profile



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.