



PRODUCT DATASHEET



- PLCC2 Top View
- ► 3528+Lens Series
- ► Warm White (2700K)



RoHS Compliant

3528+Lens Series



- Package: PLCC2 White SMT Package with Lens
- Forward Current: 20mA
- Forward Voltage (typ.): 3.1V
- Luminous Intensity (typ.): 8800mcd @20mA .
 - Colour: Warm White
- CCT: 2700K

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- Viewing angle: 30° •
- **Materials:**
 - Die: InGaN _
 - Resin: Epoxy (Water Clear) _
 - L/F Finish: Ag Plated _
- **Operating Temperature:** -40~+80°C
- Storage Temperature: -40~+85°C
- Grouping parameters:
 - Forward voltage
 - _ Luminous intensity
 - _ **CIE Chromaticity**
- Soldering methods: Reflow soldering
- Preconditioning: acc. to JEDEC Level 3
- Packing: 12mm tape with Max.2000pcs/reel, ø330mm (13'')

NOW45S74

3528+Lens Series

APPLICATIONS:

Traffic Display

Decoration Lighting

LED Display

Indicator

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CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	lf	30	mA
Peak Forward Current Duty 1/8@1KHz	IFP	125	mA
Reverse Voltage	V _R	5	V
Reverse Current @5V	IR	10	μΑ
Power Dissipation	PD	102	mW
Operating Temperature	Topr	-40~+80	°C
Storage Temperature	T _{STG}	-40~+85	°C

Electrical & Optical Characteristics (Ta=25°C)

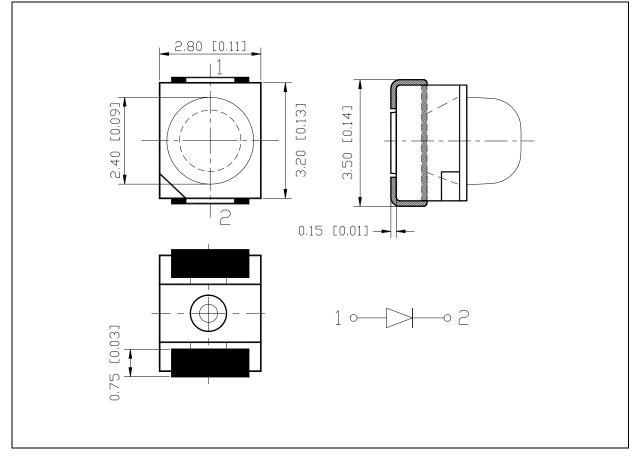
Daramatar	Sumbol	Values			Unit	Test
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	2.8	3.1	3.4	V	I⊧=20mA
Luminous Intensity	lv	5000	8800	10000	mcd	l⊧=20mA
LUMINOUS FLUX	Φv		7.8		lm	l⊧=20mA
Chromaticity Coordinates	х		0.4578			I⊧=20mA
	Y		0.4101			
Colour Temperature	ССТ		2700		к	l⊧=20mA
Viewing Angle	20 1/2		30		deg	I⊧=20mA

1. Luminous intensity (I_v) ±15%, Forward Voltage (V_F) ±0.1V, Viewing angle($2\theta_{1/2}$) ±5%



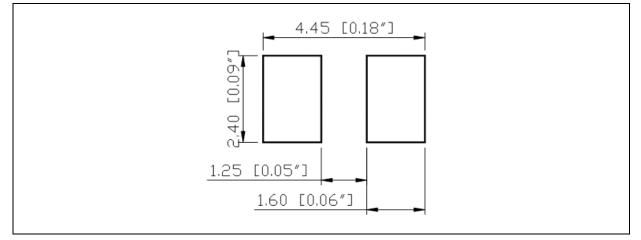
OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.2mm, unless otherwise noted.

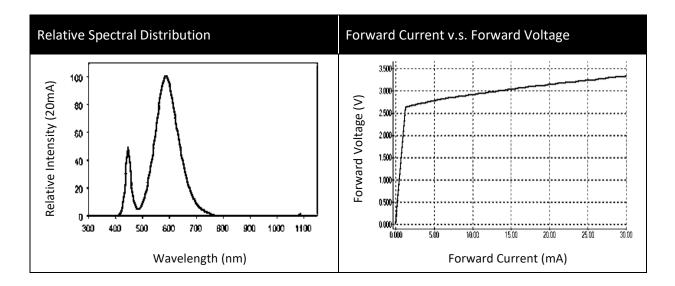
Recommended Soldering Pad Dimension:

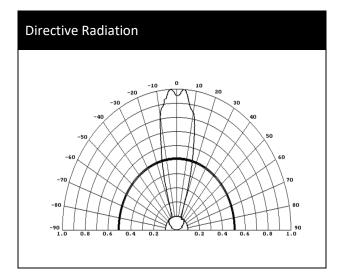


- 1. Dimensions are in millimetre (mm).
- 2. Tolerance ± 0.1 mm with angle tolerance $\pm 0.5^{\circ}$.



ELECTRO-OPTICAL CHARACTERISTICS:



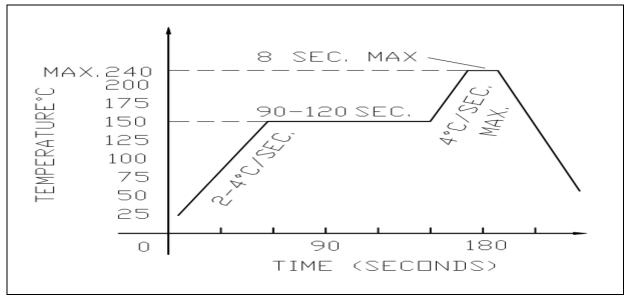


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RECOMMENDED SOLDERING PROFILE:

Lead-free Solder:



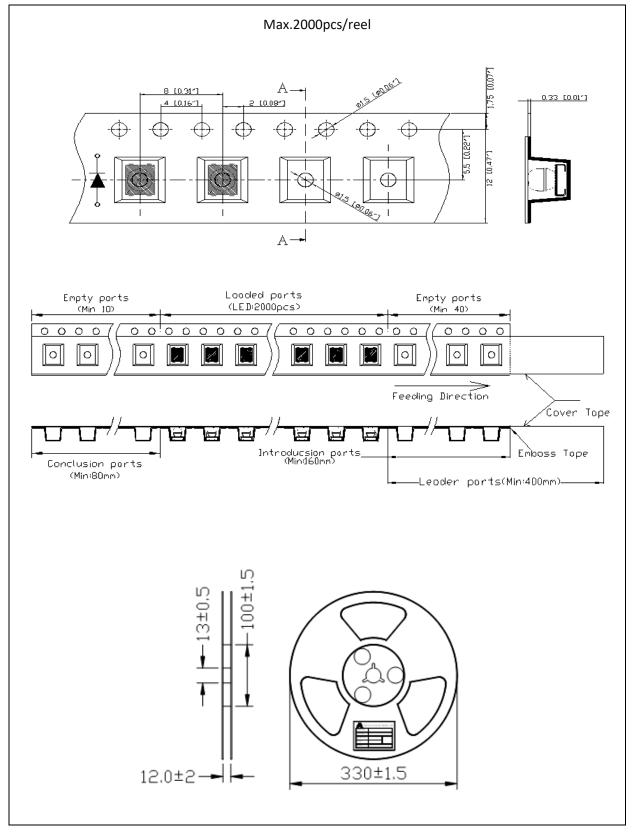
Note:

- 1. Maximum reflow soldering: 1 time.
- 2. Maximum soldering temperature is 240°C.
- 3. Before, during, and after soldering, should not apply stress on the components and PCB board.



PACKING SPECIFICATION:

Reel Dimension:



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PRECAUTIONS OF USE:



Storage:

It is recommended to store the products in the following conditions:

- Humidity: 60% R.H. Max.
- Temperature: 5°C~30°C (41°F ~86°F).

Shelf life in sealed bag: 12 month at 5°C~30°C and <60% R.H.

Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp-proof box with descanting agent and apply baking at 60°C±5°C for 15hrs before use.

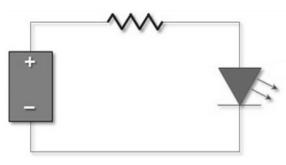
Baking:

It is recommended to bake the LED before soldering if the pack has been unsealed for longer than 24hrs. The suggested baking conditions are as followings:

• 60±3°C x 24hrs and <5%RH, taped / reel package.

It's normal to see slight color fading of carrier (light yellow) after baking in process.

Testing Circuit:



Must apply resistor(s) for protection (over current proof).

Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED carrier / package. Avoid putting any stress force directly on to the LED lens.

ESD (Electrostatic Discharge):

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing the LED all time. All devices, equipment, machinery, work tables, and storage racks must be properly grounded.

In the events of manual working in process, make sure the devices are well protected from ESD at any time.



REVISION RECORD:

Version	Date	Summary of Revision
A1.0	10/04/2018	Datasheet set-up.