



PRODUCT DATASHEET



- ▶ 3014 0.52t
- ► Warm White 2700K

Release Date: 31 January 2023 Version: A1.0



Compliant





- Package: Top View EMC White Package
- Forward Current: 30mA
- Forward Voltage (typ.): 9.5V
- Luminous Flux (typ.): 34lm@30mA •
- Colour: Warm White .
- Colour Temperature (CCT): 2700K
- Viewing angle: 120° •
 - Materials:
 - Die: InGaN _
 - Resin: Silicon (Yellow Diffused) _
- Operating Temperature: -40~+105°C
- Storage Temperature: -40~+105°C
- - **Grouping parameters:**

- _ Package: EMC
- Electrostatics Discharge: 1000V .
 - **Forward Voltage** _
 - _ Luminous Flux
 - **CIE Chromaticity** _
 - Soldering methods: Reflow Soldering
 - MSL Level: MSL3 according to J-STD020
 - Packing: 8mm tape with max.5000/reel, ø165mm (6.5")



N0W64S26

APPLICATIONS:

- **General Lighting** •
- **Portable Lighting**
- **Commercial Lighting** •
- Indoor Lighting •
- Backlight for LCD •



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C, RH=60%)

Parameter	Symbol	Ratings	Unit
DC Forward Current	lf	40	mA
Pulse Forward Current (Duty 1/10, width≤100µS)	Ipf	60	mA
Power Dissipation	PD	440	mW
Reverse Voltage	V _R	5	V
Reverse Current @10V	IR	10	μΑ
Junction Temperature	Tj	125	°C
Electrostatic Discharge	ESD	1000	V
Thermal Resistance (Junction to Solder Point)	Rтнлs	35	°C/W
Operating Temperature	T _{OPR}	-40~+105	°C
Storage Temperature	Тѕтб	-40~+105	°C
Soldering Temperature	T _{SOL}	230/260 for 10S	°C
Colour Rendering Index	CRI	80	

Electrical & Optical Characteristics (Ta=25°C, RH=60%)

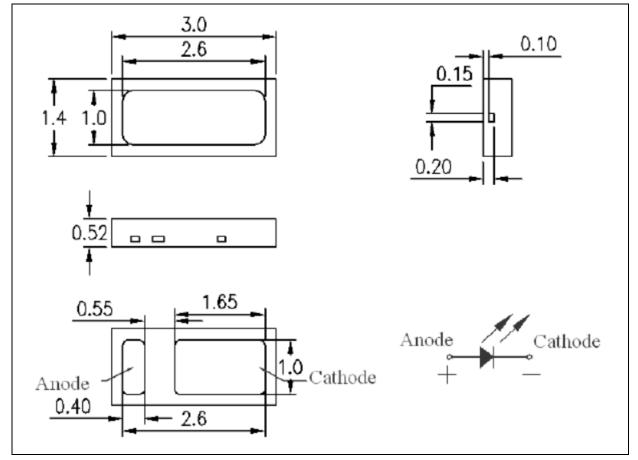
Parameter	Symbol	Values			Unit	Test	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Forward Voltage	VF	8	9.5	11	V	I⊧=30mA	
Luminous Flux	Φv	32	34	38	lm	I⊧=30mA	
Chromaticity	х		0.4582			L 20m A	
Coordinates	Y		0.4099			I⊧=30mA	
Colour Temperature	ССТ	2580	2725	2870	К	I⊧=30mA	
Viewing Angle	20 _{1/2}		120		deg	I⊧=30mA	

1. Luminous flux (Φ_V) ±10%, Forward Voltage (V_F) ±0.1V, CRI ±2



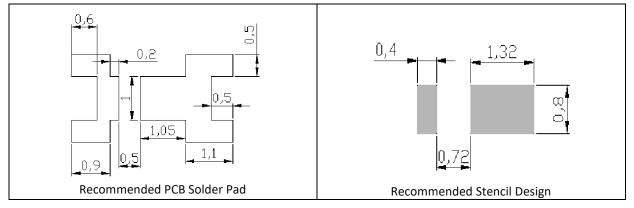
OUTLINE DIMENSION:

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 $\pm 0.5^{\circ}$.



BINNING GROUPS:

Forward Voltage Classifications (I_F = 30mA):

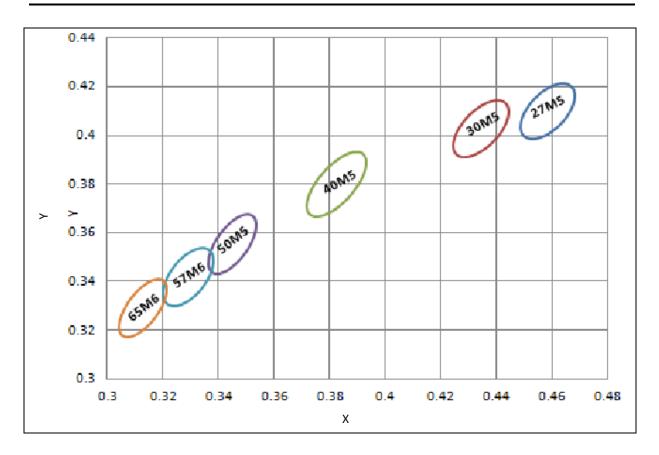
Code	Min.	Max.	Unit
1C	8	9	
1D	9	10	V
1E	10	11	

Luminous Flux Classifications (I_F = 30mA):

Code	Min.	Max.	Unit
D9	32	34	
E1	34	36	lm
E2	36	38	



CIE CHROMATICITY DIAGRAM:

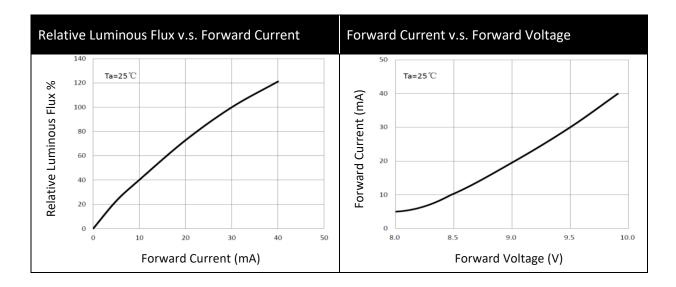


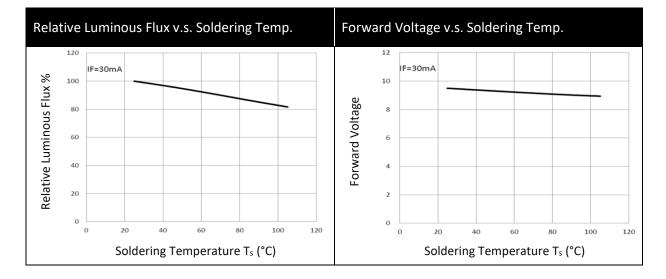
Chromaticity Coordinates Classifications (I_F = 30mA):

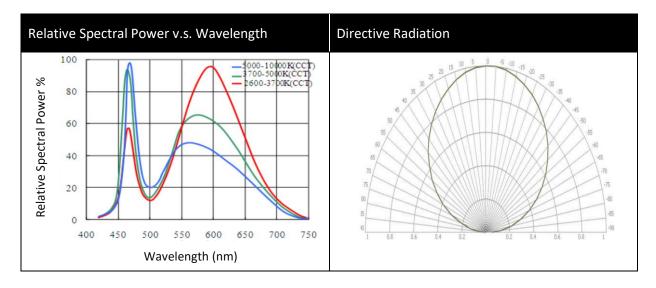
	Cada	Centre		Radius		Angle
a	Code	Х	Y	а	b	Φ
D D D	27M5	0.4582	0.4099	0.013500	0.007000	53.42



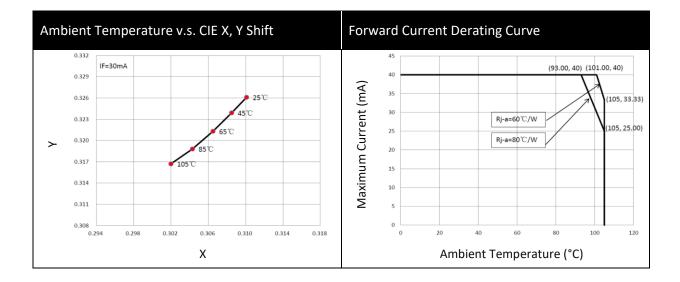
ELECTRO-OPTICAL CHARACTERISTICS:





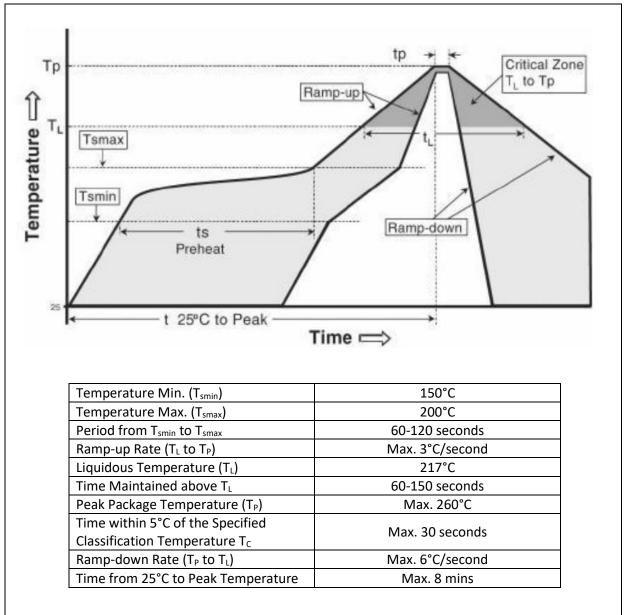








RECOMMENDED SOLDERING PROFILE:



Reflow Lead-free Solder:

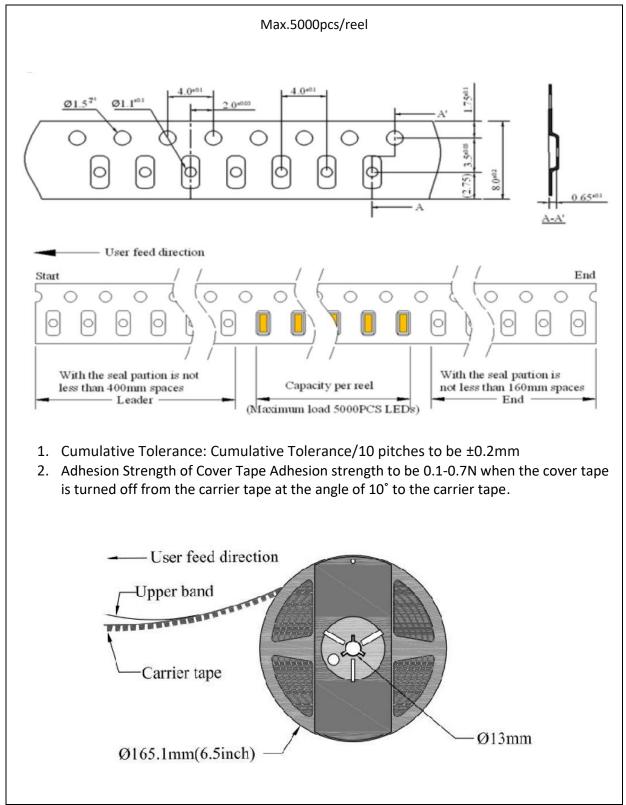
Note:

- 1. Maximum reflow soldering: 2 times.
- 2. Before, during, and after soldering, should not apply stress on the components and PCB board.
- 3. Recommended soldering temperature: 230°C. The maximum soldering temperature should be limited to 260°C for max. 10seconds.



PACKING SPECIFICATION:

Reel Dimension:



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 months 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 <10% R.H. and apply baking 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	31/01/2023	Datasheet set-up.