



PRODUCT DATASHEET



- Flat 2.5t
- ► Cool White (6800K)

N0W61P30S-30MA



SuperFlux Flat



FEATURES:

- Package: PTH Through Hole 4-Pins Package
- Forward Current: 30mA
- Forward Voltage (typ.): 3.3V
- Luminous Flux (typ.): 4.9lm@30mA •
- Colour: Cool White .
- Chromaticity Coordinates (typ.): X=0.3100; Y=0.3100
- Viewing angle: 130° •
 - Materials:
 - Die: InGaN _
 - Resin: Epoxy (Water Clear) _
 - _ L/T Finish: Ag plated
- Operating Temperature: -20~+80°C
- Storage Temperature: -30~+100°C
- ESD (HBM): 500V
- **Grouping parameters:**
 - Forward voltage _
 - _ Luminous flux
 - **CIE Chromaticity** _
- Soldering methods: Wave Soldering
- MSL: acc. to JEDEC Level 3
- Packing: 50pcs/tube; 6300pcs/carton



SuperFlux Flat

APPLICATIONS:

- Indicator •
- Signal Light
- **Decorative Light**



CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Forward Current	lF	30	mA
Pulse Forward Current Duty 1/10 at 10KHz	Ipf	100	mA
Power Dissipation	PD	120	mW
Reverse Current @5V	IR	50	μΑ
Electrostatics Discharge (HBM)	ESD	500	V
Operating Temperature	Topr	-20~+80	°C
Storage Temperature	T _{STG}	-30~+100	°C

Electrical & Optical Characteristics (Ta=25°C)

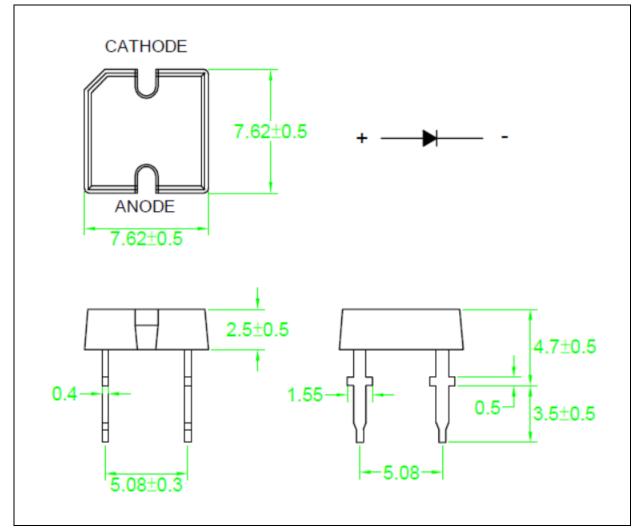
Parameter	Symbol	Values			Unit	Test	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Forward Voltage	VF	3.0		3.6	V	I⊧=30mA	
Luminous Flux	Φv	3.4	4.9		lm	I _F =30mA	
Chromaticity	х		0.3100			I⊧=30mA	
Coordinates	Y		0.3100			I⊩−SUIIIA	
Colour Temperature	ССТ	5000		7000	к	I⊧=30mA	
Viewing Angle	20 _{1/2}		130		deg	I⊧=30mA	

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



OUTLINE DIMENSION:

Package Dimension:



1. All dimensions are in millimetre (mm).

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2. Tolerance ±0.2mm, unless otherwise noted.



BINNING GROUPS:

	· · · ·	-	
Code	Min.	Max.	Unit
V1	3.0	3.2	
V2	3.2	3.4	V
V3	3.4	3.6	

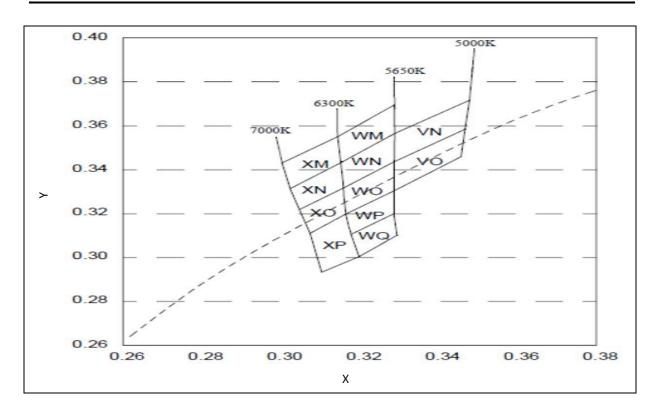
Forward Voltage Classifications (I_F = 30mA):

Luminous Flux Classifications (I_F = 30mA):

Code	Min.	Max.	Unit
F12	3.4	3.8	
F13	3.8	4.9	
F14	4.9	6.3	lm
F15	6.3	8.2	
F16	8.2	10.7	
F17	10.7	13.9	



CIE CHROMATICITY DIAGRAM:



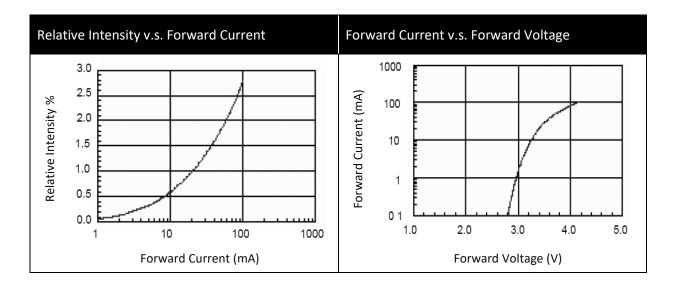
Chromaticity Coordinates Classifications (I_F = 30mA):

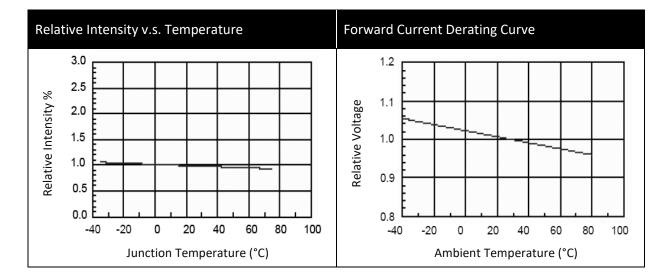
	-	1	2		3		4	
	Х	Y	Х	Y	х	Y	Х	Y
VN	0.3290	0.3450	0.3290	0.3570	0.3470	0.3720	0.3450	0.3590
VO	0.3290	0.3310	0.3290	0.3450	0.3460	0.3590	0.3440	0.3440
WM	0.3290	0.3690	0.3290	0.3570	0.3150	0.3440	0.3140	0.3550
WN	0.3290	0.3450	0.3160	0.3330	0.3150	0.3440	0.3290	0.3570
WO	0.3290	0.3450	0.3290	0.3310	0.3170	0.3200	0.3160	0.3330
WP	0.3290	0.3310	0.3290	0.3200	0.3180	0.3100	0.3170	0.3200
WQ	0.3185	0.3105	0.3290	0.3200	0.3300	0.3100	0.3200	0.3010
XW	0.3010	0.3420	0.3140	0.3550	0.3150	0.3440	0.3030	0.3330
XN	0.3050	0.3220	0.3030	0.3330	0.3150	0.3440	0.3160	0.3330
ХО	0.3080	0.3110	0.3050	0.3220	0.3160	0.3330	0.3170	0.3200
ХР	0.3080	0.3110	0.3170	0.3200	0.3200	0.3010	0.3110	0.2930

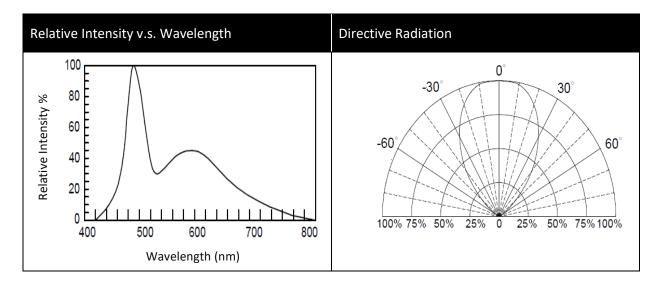
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ELECTRO-OPTICAL CHARACTERISTICS:





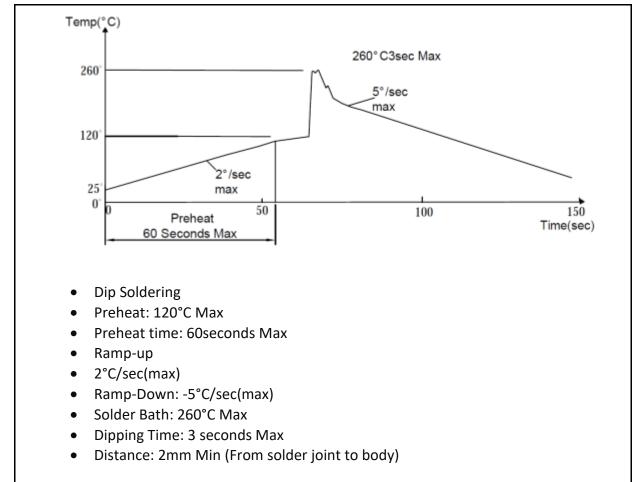




DIP Iron:

- Soldering Iron 30W Max.
- Temperature 350°C Max.
- Soldering Time 3 seconds Max. One time only.
- Distance 2mm Min. (from solder joint to body).

Wave Soldering Profile:



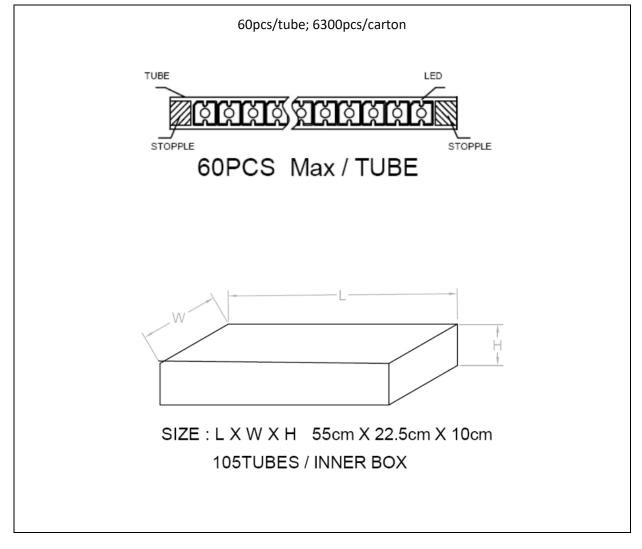
Note:

- 1. Maximum reflow soldering: 1 time.
- 2. Before, during, and after soldering, should not apply stress on the components and PCB board.
- 3. Recommended reflow temperature 240°C. The maximum soldering temperature should be limited to 260°C.



PACKING SPECIFICATION:

Tube 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 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.

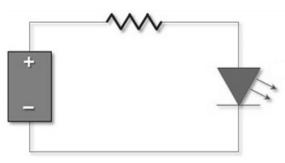
Baking:

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 6hrs and <5%RH, for 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	10/01/2017	Datasheet set-up.
A1.1	27/06/2022	New datasheet format.