



PRODUCT DATASHEET



- 3030 SMC 3.0t
 Series
- Red (625nm)





NOR26S73

APPLICATIONS:

- Decorative Lighting
- Portable Lighting
- Outdoor Lighting
- Commercial Lighting
- Architectural Lighting
- Industrial Lighting

3030 SMC Series

ATTENTION

OBSERVE PRECAUTI



FEATURES:

- Package: TOP View SMC Package with Silicon Lens
- Forward Current: 70mA
- Forward Voltage (typ.): 2.3V
- Luminous Flux (typ.): 10lm@70mA
- Colour: Red
- Wavelength: 625nm
- Viewing angle: 30°
- Materials:
 - Die: AlInGaP
 - Resin: Silicon (Water Clear)
 - L/T Finish: Ag plated
- Operating Temperature: -40~+80°C
- Storage Temperature: -40~+100°C
- Grouping parameters:
 - Forward Voltage
 - Luminous Flux
 - Dominant Wavelength
- Soldering methods: IR Reflow
- Preconditioning: MSL2 according to J-STD020
- Packing: 12mm tape with 500pcs Min./reel, ø180mm (7")





CHARACTERISTICS:

Absolute Maximum Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
DC Forward Current	lf	100	mA
Reverse Voltage	VR	5	V
Reverse Current @5V	IR	10	μΑ
Junction Temperature	Tj	125	°C
Electrostatic Discharge (HBM: MIL-STD-883 C2)	ESD	2000	V
Operating Temperature	Topr	-40~+80	°C
Storage Temperature	Т _{stg}	-40~+100	°C
Soldering Temperature	Tsol	260	°C

Electrical & Optical Characteristics (Ta=25°C)

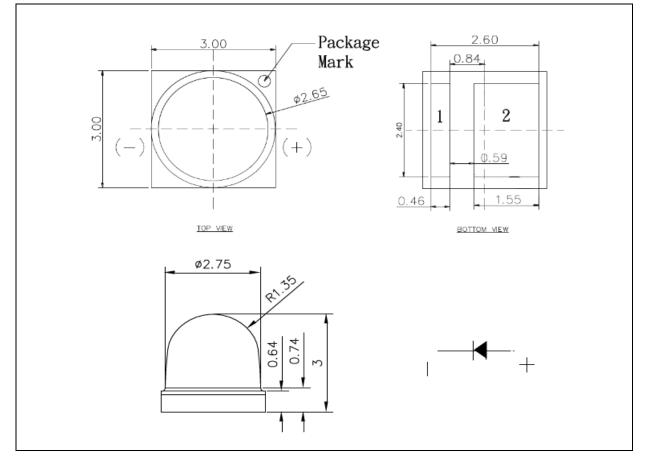
Paramotor Symbol		Values			Unit	Test
Parameter Symbol	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	V _F	2.0		2.6	V	I _F =70mA
Luminous Flux	Φv	8		14	lm	I⊧=70mA
Dominant Wavelength	λ_{D}	620		630	nm	I⊧=70mA
Viewing Angle	20 _{1/2}		30		deg	I⊧=70mA

1. Luminous flux ($\Phi_{V})$ ±7%, Forward Voltage (V_F) ±0.05V, Viewing angle(2 $\theta_{1/2})$ ±10°



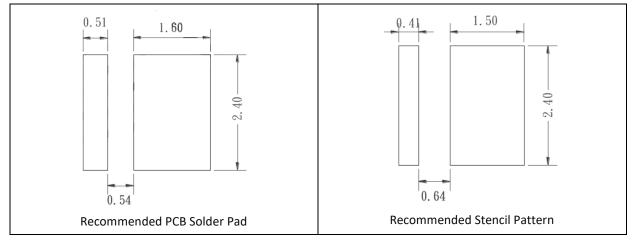
OUTLINE DIMENSION:

Package Dimension:



- 1. All dimensions are in millimetre (mm).
- 2. Tolerance ±0.13mm, unless otherwise noted.

Recommended Soldering Pad Dimension:



- 1. Dimensions are in millimetre (mm).
- **2.** Tolerance ± 0.12 mm with angle tolerance $\pm 0.5^{\circ}$.



BINNING GROUPS:

Code	Min.	Max.	Unit
V2022	2.0	2.2	
V2224	2.2	2.4	V
V2426	2.4	2.6	

Forward Voltage Classifications (I_F = 70mA):

Luminous Flux Classifications (I_F = 70mA):

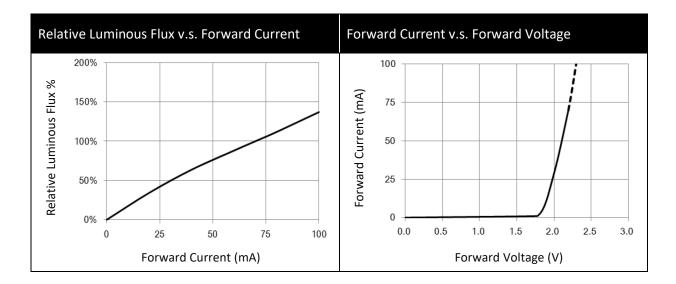
Code	Min.	Max.	Unit
B09	8	9	
B10	9	10	Im
B11	10	12	lm
B12	12	14	

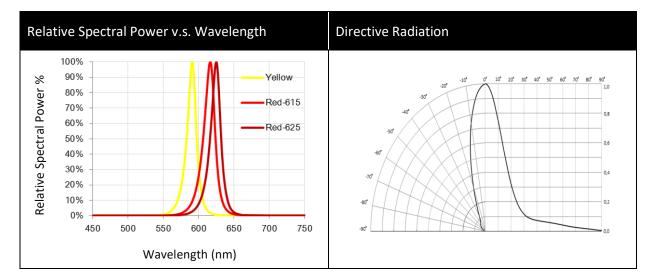
Dominant Wavelength Classifications (I_F = 70mA):

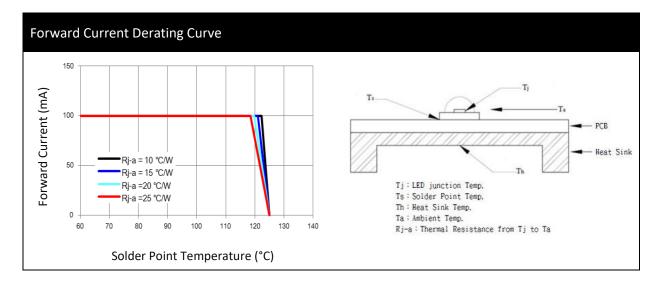
Code	Min.	Max.	Unit
R620	620	625	
R625	625	630	nm



ELECTRO-OPTICAL CHARACTERISTICS:



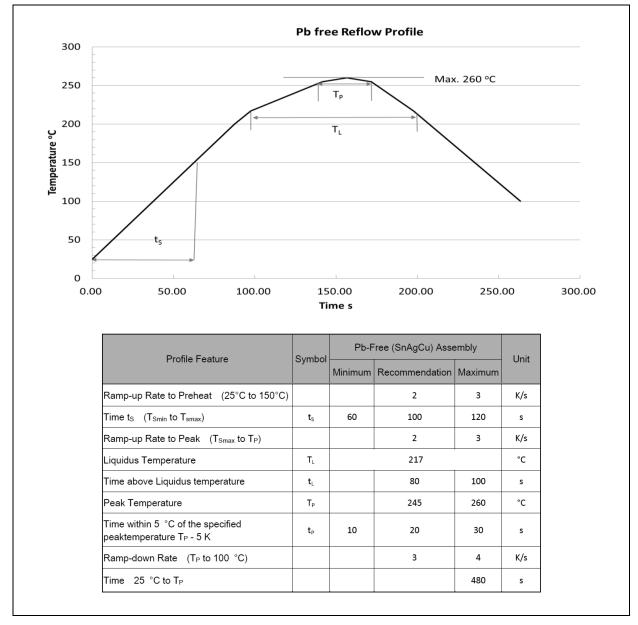






RECOMMENDED SOLDERING PROFILE:

IR Reflow Lead-free Solder:



Note:

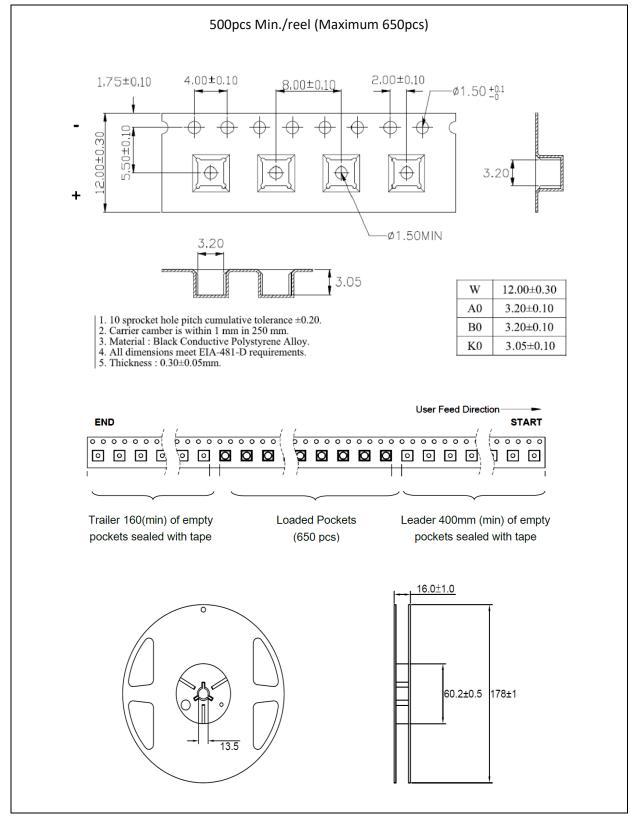
- 1. Maximum reflow soldering: 3 times.
- 2. The recommended soldering temperature is 245°C. Maximum soldering temperature should be limited to 260°C.
- 3. Before, during, and after soldering, should not apply stress on the components and PCB board.

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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 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.

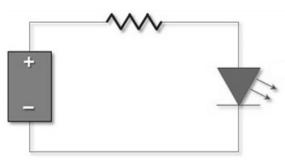
Baking:

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.

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REVISION RECORD:

Version	Date	Summary of Revision	
A1.0	26/05/2016	Datasheet set-up.	
A1.1	06/04/2018	Revise lead frame solder pad design.	

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