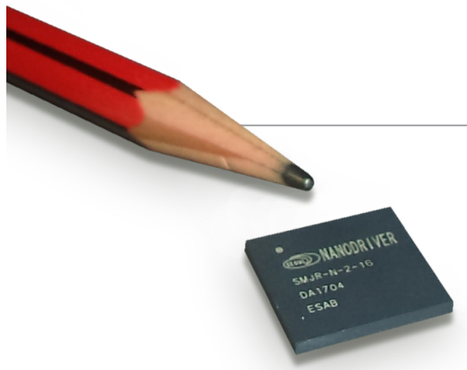

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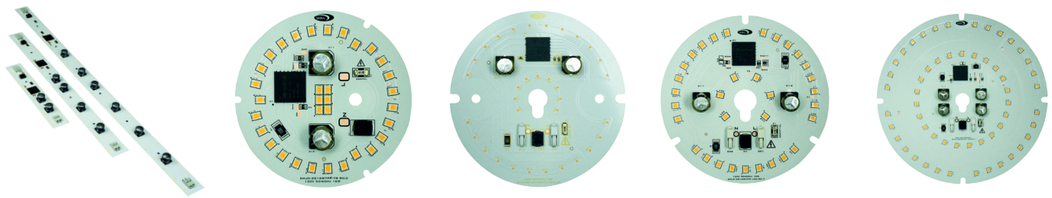
NANODRIVER Demo PCB



Input Voltage: 120V			
Size[mm]	Lumen	CCT	CRI
78	1,260	2,700	90
100	1,440	2,700	90
160	2,160	2,700	90

Input Voltage: 120V Linear type			
Size[mm]	Lumen	CCT	CRI
152.4 X 25.4	620	2,700	90
304.8 X 25.4	1,240	2,700	90
457.2 X 25.4	1,860	2,700	90

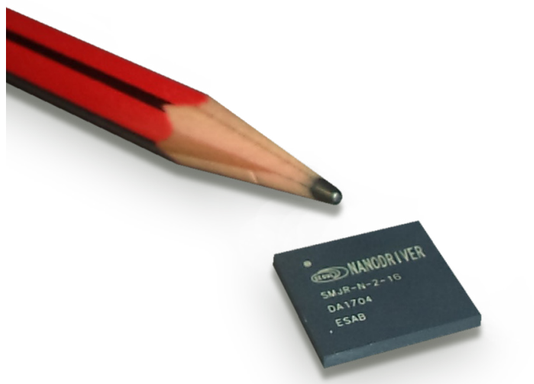
Input Voltage: 230V			
Size[mm]	Lumen	CCT	CRI
78	1,450	3,000	80
100	1,640	3,000	80
160	2,460	3,000	80

Notes

For full understanding of the design please review the NANODRIVER datasheet @
120V: http://www.seoulsemicon.com/upload2/Datasheet_NANODRIVER_120V.pdf
230V: http://www.seoulsemicon.com/upload2/Datasheet_NANODRIVER_230V.pdf

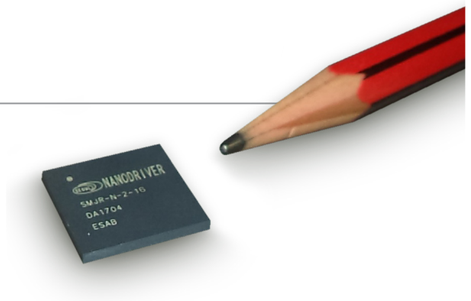
Need Something Small?

Introducing the worlds smallest 24W LED driver



The **NANODRIVER**,
is designed for LED modules
and custom residential LED drivers 8-24W.
This device provides the smallest
and lowest part count solution.

SEOUL SEMICONDUCTOR



NANODRIVER

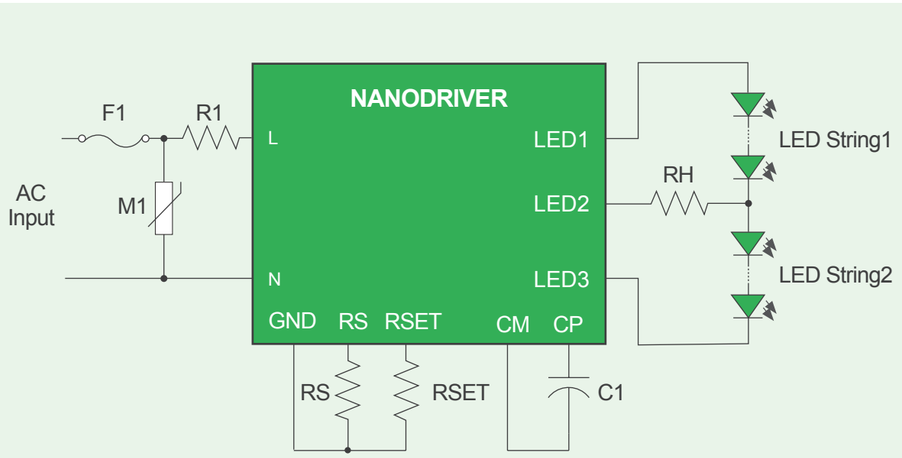
Description

The Seoul Semiconductor NANODRIVER range of Phase cut drivers are ideal for down light, spot, track light as well as wall sconce and flush mount fixtures. This incredibly small package has very few external components required. The NANODRIVER has very low ripple current enabling easy Title 24 flicker compliance.

Features

- Very small size 0.53” x 0.53” x 0.05”
- Low flicker for Title 24 compliance
- AC Phase cut dimming or analog dimming
- Over temperature protection
- Ultra Low Inrush current
- >0.9 Power Factor
- 5V 20mA Auxiliary Bias Supply

Schematic



Product Selector

Output Power	Model Number	
	120V input	230V input
16W	SMJR-N-1-16	SMJR-N-2-16
24W	SMJR-N-1-24	SMJR-N-2-24

Specification

Output	
Operating Voltage(120V)	Low flicker option: LED String 1 = 35V, LED String 2 = 62V High Efficacy option: LED String 1 = 44V, LED String 2 = 53V
Operating Voltage(230V)	LED String 1 = 89V, LED String 2 = 96V
Output Current Accuracy	± 5%
Percent Flicker	< 10%
Startup Time	< 300ms

Input	
InputVoltage	120 or 230Vac
Input Frequency	50 ~ 60Hz
Efficiency(Typ.)	85%
Power Factor(Typ.)	PF > 0.9
Inrush Current	< 300mA
Over Temperature Protection	LED current reduce to the half of total LED current > 160°, Recycle input power on to recover
Isolation	Non-isolated

Environmental	
Operating Temperature	-40 to +70℃ Ambient -40 to 120℃ Case measured at Tc point
Storage Temperature	-40℃ to +120℃

Outline Drawing