VNL5050S5-E

Manufacturer Part Number	**VNL5050S5-E**
Manufacturer	**STMicroelectronics**
Allelco Part Number	32D-VNL5050S5-E
ECAD Model	▶ Request Free CAD Models
Parts Description	IC PWR DRIVER N-CHANNEL 1:1 8SO
Package	8-SOIC (0.154", 3.90mm Width)
Data sheet	**VNL5050xx-E.pdf**
RoHs Status	RoHS ROHS3 Compliant

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Image may be representation.
See specifications for product details.

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VNL5050S5-E - STMicroelectronics.New Original in Stock. Download Linear Technology VNL5050S5-E datasheet/specifications on AllelcoElec.com.
Request a quote for VNL5050S5-E, please send us email: info@allelco.com

Specifications

VNL5050S5-E Tech Specifications
VNL5050S5-E - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Output Configuration	Low Side
Voltage - Supply (Vcc/Vdd)	3.5V ~ 5.5V	Operating Temperature	-40°C ~ 150°C (TJ)
Voltage - Load	36V (Max)	Number of Outputs	1
Switch Type	General Purpose	Mounting Type	Surface Mount
Supplier Device Package	8-SOIC	Interface	On/Off
Series	OMNIFET III™, VIPower™	Input Type	Non-Inverting
Rds On (Typ)	50mOhm (Max)	Features	Auto Restart, Status Flag
Ratio - Input:Output	1:1	Fault Protection	Current Limiting (Fixed), Over Temperature, Over Voltage
Package / Case	8-SOIC (0.154", 3.90mm Width)	Current - Output (Max)	19A
Package	Tube	Base Product Number	VNL5050
Output Type	N-Channel		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics VNL5050S5-E

Product Attribute				
Part Number	VNL5050S5-E	VNL5160S5TR-E	VNL5090S5TR-E	VNL5300S5TR-E
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Output Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)
Input Type	Non-Inverting	Non-Inverting	Non-Inverting	Non-Inverting
Number of Outputs	1	1	1	1
Series	OMNIFET III™, VIPower™	OMNIFET III™, VIPower™	OMNIFET III™, VIPower™	OMNIFET III™, VIPower™
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	3.5V ~ 5.5V	3.5V ~ 5.5V	-	3.5V ~ 5.5V
Operating Temperature	-40°C ~ 150°C (TJ)	-40°C ~ 150°C (TJ)	-40°C ~ 150°C (TJ)	-40°C ~ 150°C (TJ)
Ratio - Input:Output	1:1	1:1	1:1	1:1
Features	Auto Restart, Status Flag	Auto Restart, Status Flag	Auto Restart, Status Flag	Auto Restart, Status Flag
Base Product Number	VNL5050	VNL5160	VNL5090	VNL5300
Interface	On/Off	On/Off	On/Off	On/Off
Current - Output (Max)	19A	3.5A	13A	2A
Voltage - Load	36V (Max)	36V (Max)	36V (Max)	36V (Max)
Switch Type	General Purpose	General Purpose	General Purpose	General Purpose
Output Configuration	Low Side	Low Side	Low Side	Low Side
Supplier Device Package	8-SOIC	8-SOIC	8-SOIC	8-SOIC
Fault Protection	Current Limiting (Fixed), Over Temperature, Over Voltage	Current Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage	Current Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage	Current Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, UVLO
Package	Tube	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Rds On (Typ)	50mOhm (Max)	160mOhm	90mOhm (Max)	300mOhm

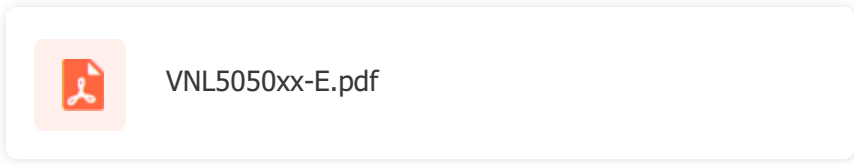## VNL5050S5-E Datasheet PDF

Download VNL5050S5-E pdf datasheets and STMicroelectronics documentation for VNL5050S5-E - STMicroelectronics.

PCN Assembly/Origin

📄 APG/15/9336 10/Aug/2015.pdf

PCN Obsolescence/ EOL

📄 Mult Dev OBS 5/Aug/2019.pdf

HTML Datasheet

📄 VNL5050xx-E.pdf

▊ Customers Also Interested in

Recommended Products

VNL5160S5TR-E	**VNL5160S5TR-C**	**VNL5090S5TR-E**	**VNL5300S5TR-E**	**VNLD5090TR-E**	**VNL5160N3TR-E**
STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
IC PWR SWITCH N-CHANNEL 1:1 8SO		IC PWR DRIVER N-CHANNEL 1:1 8SO	IC PWR DRIVER N-CHANNEL 1:1 8SO	IC PWR DRIVER N-CHANNEL 1:1 8SO	IC PWR SWITCH N-CHAN 1:1 SOT223

VNL5030S5TR-E	**VNLD5090-E**	**VNL5050S5TR**	**VNL5030JTR-E**	**VNL5050N3TR-E**	**VNL5090N3TR**
STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
IC PWR DRIVER N-CHANNEL 1:1 8SO	IC PWR DRIVER N-CHANNEL 1:1 8SO		IC PWR DRVR N-CHAN 1:1 PWRSSO12	IC PWR DRIVER N-CHAN 1:1 SOT223	

VNL5050N3TR	**VNL5050S5TR-E**	**VNLD5160TR-E**	**VNL5030S5-E**	**VNL5090N3TR-E**	**VNL5300S5-E**
2000	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
	IC PWR DRIVER N-CHANNEL 1:1 8SO	IC PWR DRIVER N-CHANNEL 1:1 8SO	IC DVR LOW-SIDE OMNI III 8SOIC	IC PWR DRIVER N-CHAN 1:1 SOT223	IC PWR DRIVER N-CHANNEL 1:1 8SO

▊ Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> **Use your express account for shipment if you have one.**

> **Use our account for the shipment. Refer to the table below for the approximate charges.**

(Different time frame / countries / package size has different price.)

Delivery Method

> **Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.**

> **Others more shipping ways, please get in touch with your customer manager.**

Common Countries Logistic Time Reference		
Region	**Country**	**Logistic Time(Day)**
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	**Reference DHL(USD$)**
0.00kg-1.00kg	USD$60.00
1.00kg-2.00kg	USD$70.00
2.00kg-3.00kg	USD$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

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⚙ Efficient Supply Management
🚚 Cost-Saving Procurement
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Certifications & Memberships

ISO (MEDICAL DEVICES ISO 13485:2016) · ISO (CERTIFIED COMPANY 9001:2015) · ISO (CERTIFIED COMPANY 14001:2015)

ISO 28000:2007 · IPC Member · SMTA Surface Mount Technology Association

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