





## SUD50N06-09L-E3

Manufacturer Part Number	<b>SUD50N06-09L-E3</b>
Manufacturer	<b>Vishay / Siliconix</b>
Allelco Part Number	32D-SUD50N06-09L-E3
ECAD Model	 PCB Footprint and Symbol
Parts Description	MOSFET N-CH 60V 50A TO252
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	<b>SUD50N06-09L.pdf</b>
RoHs Status	 ROHS3 Compliant



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SUD50N06-09L-E3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SUD50N06-09L-E3 datasheet/specifications on AllelcoElec.com.

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### Specifications





SUD50N06-09L-E3 Tech Specifications

SUD50N06-09L-E3 - Vishay Siliconix technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Vishay / Siliconix	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	3V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2650 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	70 nC @ 10 V
Supplier Device Package	TO-252AA	FET Type	N-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	9.3mOhm @ 20A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	3W (Ta), 136W (Tc)	Drain to Source Voltage (Vdss)	60 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	50A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SUD50

### Parts with Similar Specifications


The three parts on the right have similar specifications to Vishay Siliconix SUD50N06-09L-E3

Product Attribute	 NO PICTURE			
Part Number	SUD50N06-09L-E3	SUD50N10-18P-E3	SUD50N04-8M8P-4GE3	SUD50N10-18P-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Base Product Number	SUD50	SUD50	SUD50	SUD50
Current - Continuous Drain (Id) @ 25°C	50A (Tc)	8.2A (Ta), 50A (Tc)	14A (Ta), 50A (Tc)	8.2A (Ta), 50A (Tc)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	10V	4.5V, 10V	10V
Drain to Source Voltage (Vdss)	60 V	100 V	40 V	100 V
Vgs(th) (Max) @ Id	3V @ 250µA	5V @ 250µA	3V @ 250µA	5V @ 250µA
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Gate Charge (Qg) (Max) @ Vgs	70 nC @ 10 V	75 nC @ 10 V	56 nC @ 10 V	75 nC @ 10 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Input Capacitance (Ciss) (Max) @ Vds	2650 pF @ 25 V	2600 pF @ 50 V	2400 pF @ 20 V	2600 pF @ 50 V
FET Feature	-	-	-	-
Supplier Device Package	TO-252AA	TO-252AA	TO-252AA	TO-252AA
Vgs (Max)	±20V	±20V	±20V	±20V
Series	TrenchFET®	TrenchFET®	TrenchFET®	TrenchFET®
Power Dissipation (Max)	3W (Ta), 136W (Tc)	3W (Ta), 136.4W (Tc)	3.1W (Ta), 48.1W (Tc)	3W (Ta), 136.4W (Tc)
Rds On (Max) @ Id, Vgs	9.3mOhm @ 20A, 10V	18.5mOhm @ 15A, 10V	8.8mOhm @ 20A, 10V	18.5mOhm @ 15A, 10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)


### SUD50N06-09L-E3 Datasheet PDF

Download SUD50N06-09L-E3 pdf datasheets and Vishay Siliconix documentation for SUD50N06-09L-E3 - Vishay Siliconix.

#### Datasheets



















 SUD50N06-09L.pdf
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#### PCN Assembly/Origin

 Assembly Site Add 9/Jun/2016.pdf
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## Customers Also Interested in

### Recommended Products

 <b>SUD50N04-25P</b> Electro-Films (EFI) / Vishay	 <b>SUD50N06-07L</b> Electro-Films (EFI) / Vishay	 <b>SUD50N10-18P-E3</b> Vishay Siliconix MOSFET N-CH 100V 8.2A/50A TO252	 <b>SUD50N04-8M8P-4GE3</b> Vishay Siliconix MOSFET N-CH 40V 14A/50A TO252	 <b>SUD50N06-36 MOS</b> Electro-Films (EFI) / Vishay	 <b>SUD50N10-18P</b> Electro-Films (EFI) / Vishay
 <b>SUD50N06-36</b> Electro-Films (EFI) / Vishay	 <b>SUD50N06-09L</b> Electro-Films (EFI) / Vishay	 <b>SUD50N10-18P-GE3</b> Vishay Siliconix MOSFET N-CH 100V 8.2A/50A TO252	 <b>SUD50N06-07L-E3</b> Vishay Siliconix MOSFET N-CH 60V 96A TO252	 <b>SUD50N04-37P</b> Electro-Films (EFI) / Vishay	 <b>SUD50N06-07L-GE3</b> Vishay Siliconix MOSFET N-CH 60V 96A TO252
 <b>SUD50N04-8M8P</b> Electro-Films (EFI) / Vishay	 <b>SUD50N06-36-T4-E3</b> Electro-Films (EFI) / Vishay	 <b>SUD50N04-8M8P-E3</b> Electro-Films (EFI) / Vishay	 <b>SUD50N06-16</b> Electro-Films (EFI) / Vishay	 <b>SUD50N06-08H</b> Electro-Films (EFI) / Vishay	 <b>SUD50N10-18P-T4-E3</b> Electro-Films (EFI) / Vishay

## 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.

### Payment Support

The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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