



## SIS412DN-T1-GE3

Manufacturer Part Number	<b>SIS412DN-T1-GE3</b>
Manufacturer	<b>Vishay / Siliconix</b>
Allelco Part Number	32D-SIS412DN-T1-GE3
ECAD Model	 PCB Footprint and Symbol
Parts Description	MOSFET N-CH 30V 12A PPAK1212-8
Package	PowerPAK® 1212-8
Data sheet	SIS412DN-T1-GE3.pdf
RoHs Status	 ROHS3 Compliant


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SIS412DN-T1-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SIS412DN-T1-GE3 datasheet/specifications on AllelcoElec.com.

Request a quote for SIS412DN-T1-GE3, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications





SIS412DN-T1-GE3 Tech Specifications

SIS412DN-T1-GE3 - Vishay Siliconix technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Vishay / Siliconix	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	2.5V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	435 pF @ 15 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	12 nC @ 10 V
Supplier Device Package	PowerPAK® 1212-8	FET Type	N-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	24mOhm @ 7.8A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	3.2W (Ta), 15.6W (Tc)	Drain to Source Voltage (Vdss)	30 V
Package / Case	PowerPAK® 1212-8	Current - Continuous Drain (Id) @ 25°C	12A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SIS412

### Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SIS412DN-T1-GE3

Product Attribute	 NO PICTURE			
Part Number	SIS412DN-T1-GE3	SIS407DN-T1-GE3	SIS414DN-T1-GE3	SIS407ADN-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Current - Continuous Drain (Id) @ 25°C	12A (Tc)	25A (Tc)	20A (Tc)	18A (Tc)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Gate Charge (Qg) (Max) @ Vgs	12 nC @ 10 V	93.8 nC @ 8 V	33 nC @ 10 V	168 nC @ 8 V
FET Type	N-Channel	P-Channel	N-Channel	P-Channel
Drain to Source Voltage (Vdss)	30 V	20 V	30 V	20 V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	1.8V, 4.5V	2.5V, 4.5V	1.8V, 4.5V
Package / Case	PowerPAK® 1212-8	PowerPAK® 1212-8	PowerPAK® 1212-8	PowerPAK® 1212-8
Supplier Device Package	PowerPAK® 1212-8	PowerPAK® 1212-8	PowerPAK® 1212-8	PowerPAK® 1212-8
Rds On (Max) @ Id, Vgs	24mOhm @ 7.8A, 10V	9.5mOhm @ 15.3A, 4.5V	16mOhm @ 10A, 4.5V	9mOhm @ 15A, 4.5V
Series	TrenchFET®	TrenchFET®	TrenchFET®	TrenchFET®
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	SIS412	SIS407	SIS414	SIS407
Power Dissipation (Max)	3.2W (Ta), 15.6W (Tc)	3.6W (Ta), 33W (Tc)	3.4W (Ta), 31W (Tc)	3.7W (Ta), 39.1W (Tc)
Vgs(th) (Max) @ Id	2.5V @ 250µA	1V @ 250µA	1.5V @ 250µA	1V @ 250µA
Vgs (Max)	±20V	±8V	±12V	±8V
FET Feature	-	-	-	-
Input Capacitance (Ciss) (Max) @ Vds	435 pF @ 15 V	2760 pF @ 10 V	795 pF @ 15 V	5875 pF @ 10 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)

### SIS412DN-T1-GE3 Datasheet PDF

Download SIS412DN-T1-GE3 pdf datasheets and Vishay Siliconix documentation for SIS412DN-T1-GE3 - Vishay Siliconix.

PCN Assembly/Origin



New Solder Plating Site 18/Apr/2023.pdf

### Customers Also Interested in

### Recommended Products



**SIS410DN**  
VBSEMI



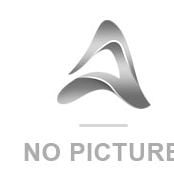
**SiS413DN-T1-GE3 MOS**  
CCSEMI



**SIS414DN-T1-GE3 MOS**  
Electro-Films (EFI) / Vishay



**SIS407DN-T1-GE3**  
Vishay Siliconix  
MOSFET P-CH 20V 25A PPAK1212-8



**SIS412DN-T1-E3**  
VISHIAY



**SIS414DN-T1-GE3**  
Vishay Siliconix  
MOSFET P-CH 30V 20A PPAK1212-8



**SiS410DN-T1-GE3 MOS**  
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**SIS412DN-T1-GE3 MOS**  
Electro-Films (EFI) / Vishay



**SIS407DN-T1-E3**  
Electro-Films (EFI) / Vishay



**SIS415DN-T1-GE3**  
Electro-Films (EFI) / Vishay



**SIS407DN**  
Electro-Films (EFI) / Vishay



**SIS407ADN-T1-GE3**  
Vishay Siliconix  
MOSFET P-CH 20V 18A PPAK1212-8



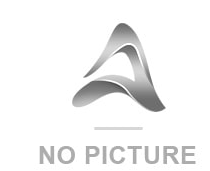
**SiS412DN**  
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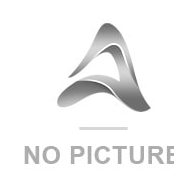
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**SIS410DN-T1-GE3**  
Vishay Siliconix  
MOSFET N-CH 20V 35A PPAK 1212-8



**SIS4101PT1G**  
SIG



**SIS422-24VDC**  
ELESTA



**SIS413DN-T1-GE3**  
Vishay Siliconix  
MOSFET P-CH 30V 18A PPAK 1212-8

## 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

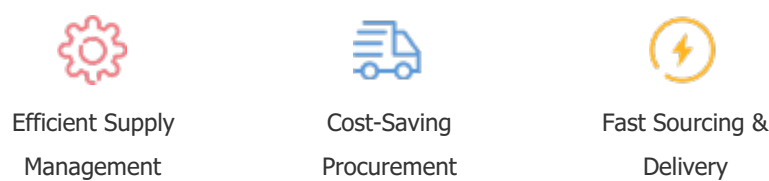
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

## Payment Support

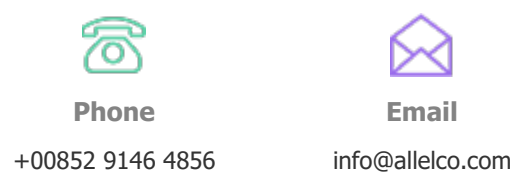
The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
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Contact us if you have any questions.



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