



SIR414DP-T1-GE3

Manufacturer Part Number	SIR414DP-T1-GE3
Manufacturer	Vishay / Siliconix
Allelco Part Number	32D-SIR414DP-T1-GE3
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 40V 50A PPAK SO-8
Package	PowerPAK® SO-8
Data sheet	SIR414DP.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

SIR414DP-T1-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SIR414DP-T1-GE3 datasheet/specifications on AllelcoElec.com.

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Specifications

SIR414DP-T1-GE3 Tech Specifications

SIR414DP-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	4750 pF @ 20 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	117 nC @ 10 V
Supplier Device Package	PowerPAK® SO-8	FET Type	N-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	2.8mOhm @ 20A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	5.4W (Ta), 83W (Tc)	Drain to Source Voltage (Vdss)	40 V
Package / Case	PowerPAK® SO-8	Current - Continuous Drain (Id) @ 25°C	50A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SIR414

Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SIR414DP-T1-GE3

Product Attribute				
Part Number	SIR414DP-T1-GE3	SIR410DP-T1-GE3	SIR408DP-T1-GE3	SIR418DP-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	2.8mOhm @ 20A, 10V	4.8mOhm @ 20A, 10V	6.3mOhm @ 20A, 10V	5mOhm @ 20A, 10V
Package / Case	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Vgs(th) (Max) @ Id	2.5V @ 250µA	2.5V @ 250µA	2.5V @ 250µA	2.4V @ 250µA
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Vgs (Max)	±20V	±20V	±20V	±20V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Drain to Source Voltage (Vdss)	40 V	20 V	25 V	40 V
Supplier Device Package	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Power Dissipation (Max)	5.4W (Ta), 83W (Tc)	4.2W (Ta), 36W (Tc)	4.8W (Ta), 44.6W (Tc)	39W (Tc)
Input Capacitance (Ciss) (Max) @ Vds	4750 pF @ 20 V	1600 pF @ 10 V	1230 pF @ 15 V	2410 pF @ 20 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	SIR414	SIR410	SIR408	SIR418
Current - Continuous Drain (Id) @ 25°C	50A (Tc)	35A (Tc)	50A (Tc)	40A (Tc)
Series	TrenchFET®	TrenchFET®	TrenchFET®	-
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	117 nC @ 10 V	41 nC @ 10 V	33 nC @ 10 V	75 nC @ 10 V

SIR414DP-T1-GE3 Datasheet PDF

Download SIR414DP-T1-GE3 pdf datasheets and Vishay Siliconix documentation for SIR414DP-T1-GE3 - Vishay Siliconix.

Datasheets

SIR414DP.pdf

PCN Design/Specification



















Mult Dev 07/Jun/2023.pdf

New solder paste 26/May/2023.pdf

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 SIR410DP-T1-GE3 Vishay Siliconix MOSFET N-CH 20V 35A PPAK SO-8	 SiR422DP Electro-Films (EFI) / Vishay	 SIR416DP-T1-E3 Electro-Films (EFI) / Vishay	 SIR410DP-T1 Electro-Films (EFI) / Vishay	 SIR422DP-T1 Electro-Films (EFI) / Vishay	 SIR408DP-T1-GE3 MOS Electro-Films (EFI) / Vishay
 SiR414DP Electro-Films (EFI) / Vishay	 SIR410DP SI	 SIR408DP-T1-GE3 Vishay Siliconix MOSFET N-CH 25V 50A PPAK SO-8	 SIR418DP-T1-GE3 Vishay Siliconix MOSFET N-CH 40V 40A PPAK SO-8	 SIR412DP-T1-GE3 MOS Electro-Films (EFI) / Vishay	 SIR416DP-T1-GE3 Vishay Siliconix MOSFET N-CH 40V 50A PPAK SO-8
 SiR414DP-T1-E3 Electro-Films (EFI) / Vishay	 SiR418DP Electro-Films (EFI) / Vishay	 SIR412DP-T1-GE3 Vishay Siliconix MOSFET N-CH 25V 20A PPAK SO-8	 SiR412DP Electro-Films (EFI) / Vishay	 SIR422DP-T1-GE3 Vishay Siliconix MOSFET N-CH 40V 40A PPAK SO-8	 SIR418DP-T1-GE3 MOS 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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