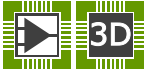





SIA431DJ-T1-GE3

Manufacturer Part Number	SIA431DJ-T1-GE3
Manufacturer	Vishay / Siliconix
Allelco Part Number	32D-SIA431DJ-T1-GE3
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET P-CH 20V 12A PPAK SC70-6
Package	PowerPAK® SC-70-6
Data sheet	SIA431DJ.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

SIA431DJ-T1-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SIA431DJ-T1-GE3 datasheet/specifications on AllelcoElec.com.

Request a quote for SIA431DJ-T1-GE3, please send us email: info@allelco.com

Specifications





SIA431DJ-T1-GE3 Tech Specifications

SIA431DJ-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	850mV @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±8V	Input Capacitance (Ciss) (Max) @ Vds	1700 pF @ 10 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	60 nC @ 8 V
Supplier Device Package	PowerPAK® SC-70-6	FET Type	P-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	25mOhm @ 6.5A, 4.5V	Drive Voltage (Max Rds On, Min Rds On)	1.5V, 4.5V
Power Dissipation (Max)	3.5W (Ta), 19W (Tc)	Drain to Source Voltage (Vdss)	20 V
Package / Case	PowerPAK® SC-70-6	Current - Continuous Drain (Id) @ 25°C	12A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SIA431

Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SIA431DJ-T1-GE3

Product Attribute	 NO PICTURE			
Part Number	SIA431DJ-T1-GE3	SIA430DJT-T1-GE3	SIA433EDJ-T1-GE3	SIA427DJ-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Package / Case	PowerPAK® SC-70-6	PowerPAK® SC-70-6	PowerPAK® SC-70-6	PowerPAK® SC-70-6
Drive Voltage (Max Rds On, Min Rds On)	1.5V, 4.5V	4.5V, 10V	1.8V, 4.5V	1.2V, 4.5V
Gate Charge (Qg) (Max) @ Vgs	60 nC @ 8 V	18 nC @ 10 V	75 nC @ 8 V	50 nC @ 5 V
FET Feature	-	-	-	-
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Series	TrenchFET®	-	TrenchFET®	TrenchFET®
FET Type	P-Channel	N-Channel	P-Channel	P-Channel
Vgs(th) (Max) @ Id	850mV @ 250µA	3V @ 250µA	1.2V @ 250µA	800mV @ 250µA
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Base Product Number	SIA431	SIA430	SIA433	SIA427
Current - Continuous Drain (Id) @ 25°C	12A (Tc)	12A (Tc)	12A (Tc)	12A (Tc)
Vgs (Max)	±8V	±20V	±12V	±5V
Rds On (Max) @ Id, Vgs	25mOhm @ 6.5A, 4.5V	13.5mOhm @ 7A, 10V	18mOhm @ 7.6A, 4.5V	16mOhm @ 8.2A, 4.5V
Power Dissipation (Max)	3.5W (Ta), 19W (Tc)	19.2W (Tc)	3.5W (Ta), 19W (Tc)	3.5W (Ta), 19W (Tc)
Drain to Source Voltage (Vdss)	20 V	20 V	20 V	8 V
Input Capacitance (Ciss) (Max) @ Vds	1700 pF @ 10 V	800 pF @ 10 V	-	2300 pF @ 4 V
Supplier Device Package	PowerPAK® SC-70-6	PowerPAK® SC-70-6 Single	PowerPAK® SC-70-6	PowerPAK® SC-70-6

SIA431DJ-T1-GE3 Datasheet PDF



















Download SIA431DJ-T1-GE3 pdf datasheets and Vishay Siliconix documentation for SIA431DJ-T1-GE3 - Vishay Siliconix.

Datasheets

 SIA431DJ.pdf
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Customers Also Interested in

Recommended Products

 SIA430DJT-T1-GE3 Vishay Siliconix MOSFET N-CH 20V 12A PPAK SC70-6	 SiA429DJT-T1-GE3 MOS CCSEMI	 SIA433EDJ-T1-GE3 Vishay Siliconix MOSFET P-CH 20V 12A PPAK SC70-6	 SIA431DJ-T1-GE3 MOS Electro-Films (EFI) / Vishay	 SIA432DJ-T4-GE3 Electro-Films (EFI) / Vishay	 SIA427DJ-T1-GE3 Vishay Siliconix MOSFET P-CH 8V 12A PPAK SC70-6
 SIA430DJ-T4-GE3 Vishay Siliconix MOSFET N-CH 20V 12A/12A PPAK	 SIA436DJ-T1-GE3 Vishay Siliconix MOSFET N-CH 8V 12A PPAK SC70-6	 SIA433EDJ Electro-Films (EFI) / Vishay	 SIA436DJ-T1-GE3 MOS CCSEMI	 SIA433EDJ-T1-GE3 MOS Electro-Films (EFI) / Vishay	 SIA427ADJ-T1-GE3 Vishay Siliconix MOSFET P-CH 8V 12A PPAK SC70-6
 SIA432DJ-T1-GE3 Vishay Siliconix MOSFET N-CH 30V 12A PPAK SC70-6	 SIA431DJ Electro-Films (EFI) / Vishay	 SIA430DJ-T1-GE3 Vishay Siliconix MOSFET N-CH 20V 12A PPAK SC70-6	 SIA429DJT-T1-GE3 Vishay Siliconix MOSFET P-CH 20V 12A PPAK SC70-6	 SIA426DJ-T1-GE3 MOS Electro-Films (EFI) / Vishay	 SiA430DJ-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.

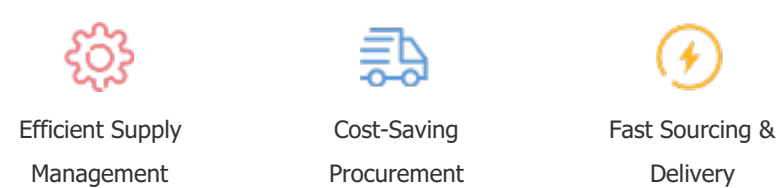
Contact us if you have any questions.

Payment Support

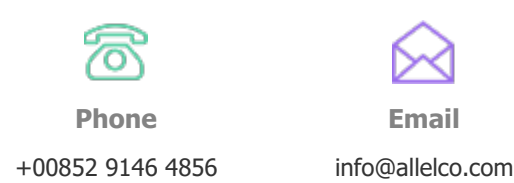
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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