



SIR820DP-T1-GE3

Manufacturer Part Number	SIR820DP-T1-GE3
Manufacturer	Vishay / Siliconix
Allelco Part Number	32D-SIR820DP-T1-GE3
ECAD Model	 Request Free CAD Models
Parts Description	MOSFET N-CH 30V 40A PPAK SO-8
Package	PowerPAK® SO-8
Data sheet	SIR820DP.pdf

VISHAY.

Get a Quote

SIR820DP-T1-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SIR820DP-T1-GE3 datasheet/specifications on AllelcoElec.com.
Request a quote for SIR820DP-T1-GE3, please send us email: info@allelco.com

Specifications





SIR820DP-T1-GE3 Tech Specifications

SIR820DP-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	2.4V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	3512 pF @ 15 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	95 nC @ 10 V
Supplier Device Package	PowerPAK® SO-8	FET Type	N-Channel
Series	-	FET Feature	-
Rds On (Max) @ Id, Vgs	3mOhm @ 15A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	37.8W (Tc)	Drain to Source Voltage (Vdss)	30 V
Package / Case	PowerPAK® SO-8	Current - Continuous Drain (Id) @ 25°C	40A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SIR820

Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SIR820DP-T1-GE3

Product Attribute	 NO PICTURE			
Part Number	SIR820DP-T1-GE3	SIR826LDP-T1-RE3	SIR804DP-T1-GE3	SIR812DP-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Input Capacitance (Ciss) (Max) @ Vds	3512 pF @ 15 V	3840 pF @ 40 V	2450 pF @ 50 V	10240 pF @ 15 V
Current - Continuous Drain (Id) @ 25°C	40A (Tc)	21.3A (Ta), 86A (Tc)	60A (Tc)	60A (Tc)
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	2.4V @ 250µA	2.4V @ 250µA	3V @ 250µA	2.3V @ 250µA
Gate Charge (Qg) (Max) @ Vgs	95 nC @ 10 V	91 nC @ 10 V	76 nC @ 10 V	335 nC @ 10 V
Series	-	TrenchFET® Gen IV	TrenchFET®	TrenchFET®
Power Dissipation (Max)	37.8W (Tc)	5W (Ta), 83W (Tc)	6.25W (Ta), 104W (Tc)	6.25W (Ta), 104W (Tc)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Rds On (Max) @ Id, Vgs	3mOhm @ 15A, 10V	5mOhm @ 15A, 10V	7.2mOhm @ 20A, 10V	1.45mOhm @ 20A, 10V
Package / Case	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Drain to Source Voltage (Vdss)	30 V	80 V	100 V	30 V
Vgs (Max)	±20V	±20V	±20V	±20V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	10V	4.5V, 10V	4.5V, 10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Base Product Number	SIR820	SIR826	SIR804	SIR812
Supplier Device Package	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8

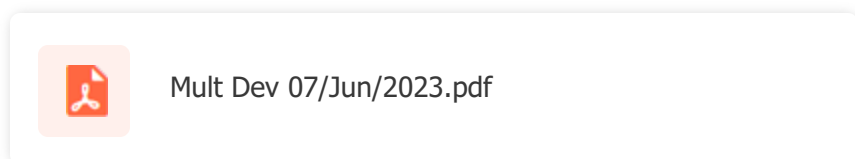
SIR820DP-T1-GE3 Datasheet PDF

Download SIR820DP-T1-GE3 pdf datasheets and Vishay Siliconix documentation for SIR820DP-T1-GE3 - Vishay Siliconix.

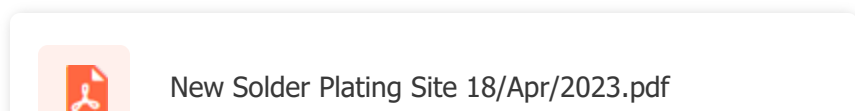
Datasheets



PCN Design/Specification





















PCN Assembly/Origin



Customers Also Interested in

Recommended Products

 NO PICTURE	 NO PICTURE	 SIR826LDP-T1-RE3 Vishay Siliconix MOSFET N-CH 80V 21.3A/86A PPAK	 SIR820DP Electro-Films (EFI) / Vishay	 SIR804DP-T1-GE3 Vishay Siliconix MOSFET N-CH 100V 60A PPAK SO-8	 SIR812DP-T1-GE3 MOS Electro-Films (EFI) / Vishay
 SIR812DP-T1-GE3 Vishay Siliconix MOSFET N-CH 30V 60A PPAK SO-8	 SIR808DP-T1-GE3 Vishay Siliconix MOSFET N-CH 25V 20A PPAK SO-8	 SIR836DP-T1-GE3 MOS Electro-Films (EFI) / Vishay	 SIR826DP-T1-GE3 Vishay Siliconix MOSFET N-CH 80V 60A PPAK SO-8	 SIR826BDP-T1-RE3 Vishay Siliconix MOSFET N-CH 80V 19.8A/80.8A PPAK	 SIR838ADP-T1-GE3 Electro-Films (EFI) / Vishay
 SIR836DP-T1-GE3 Vishay Siliconix MOSFET N-CH 40V 21A PPAK SO-8	 SIR814DP-T1-GE3 Vishay Siliconix MOSFET N-CH 40V 60A PPAK SO-8	 SIR838DP-T1-GE3 Vishay Siliconix MOSFET N-CH 150V 35A PPAK SO-8	 SIR818DP-T1-GE3 Vishay Siliconix MOSFET N-CH 30V 50A PPAK SO-8	 SIR826ADP-T1-GE3 Vishay Siliconix MOSFET N-CH 80V 60A PPAK SO-8	 SIR808DP 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

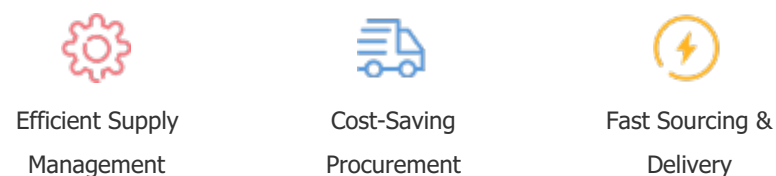
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

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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