



# SIR870DP-T1-GE3

Manufacturer Part Number	<b>SIR870DP-T1-GE3</b>
Manufacturer	<b>Vishay / Siliconix</b>
Allelco Part Number	32D-SIR870DP-T1-GE3
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 100V 60A PPAK SO-8
Package	PowerPAK® SO-8
Data sheet	<b>SIR870DP.pdf</b>
RoHs Status	ROHS3 Compliant



**Get a Quote**

SIR870DP-T1-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SIR870DP-T1-GE3 datasheet/specifications on AllelcoElec.com.

Request a quote for SIR870DP-T1-GE3, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

SIR870DP-T1-GE3 Tech Specifications

SIR870DP-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	3V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2840 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	84 nC @ 10 V
Supplier Device Package	PowerPAK® SO-8	FET Type	N-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	6mOhm @ 20A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	6.25W (Ta), 104W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	PowerPAK® SO-8	Current - Continuous Drain (Id) @ 25°C	60A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SIR870

## Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SIR870DP-T1-GE3

Product Attribute				
Part Number	SIR870DP-T1-GE3	SIR872ADP-T1-GE3	SIR874DP-T1-GE3	SIR866DP-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Supplier Device Package	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Input Capacitance (Ciss) (Max) @ Vds	2840 pF @ 50 V	1286 pF @ 75 V	985 pF @ 15 V	4730 pF @ 10 V
Drain to Source Voltage (Vdss)	100 V	150 V	25 V	20 V
Vgs (Max)	±20V	±20V	±20V	±20V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	7.5V, 10V	4.5V, 10V	4.5V, 10V
Current - Continuous Drain (Id) @ 25°C	60A (Tc)	53.7A (Tc)	20A (Tc)	60A (Tc)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Rds On (Max) @ Id, Vgs	6mOhm @ 20A, 10V	18mOhm @ 20A, 10V	9.4mOhm @ 10A, 10V	1.9mOhm @ 20A, 10V
Power Dissipation (Max)	6.25W (Ta), 104W (Tc)	6.25W (Ta), 104W (Tc)	3.9W (Ta), 29.8W (Tc)	5.4W (Ta), 83W (Tc)
Base Product Number	SIR870	SIR872	SIR874	SIR866
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Series	TrenchFET®	TrenchFET®	TrenchFET®	TrenchFET®
Vgs(th) (Max) @ Id	3V @ 250µA	4.5V @ 250µA	2.2V @ 250µA	2.3V @ 250µA
Gate Charge (Qg) (Max) @ Vgs	84 nC @ 10 V	47 nC @ 10 V	27 nC @ 10 V	107 nC @ 10 V
FET Feature	-	-	-	-

## SIR870DP-T1-GE3 Datasheet PDF

Download SIR870DP-T1-GE3 pdf datasheets and Vishay Siliconix documentation for SIR870DP-T1-GE3 - Vishay Siliconix.

### Datasheets

[SIR870DP.pdf](#)

### PCN Design/Specification

[Mult Dev 07/Jun/2023.pdf](#)



















[New solder paste 26/May/2023.pdf](#)

### PCN Assembly/Origin

[New solder paste 26/May/2023.pdf](#)

## Customers Also Interested in

### Recommended Products

					
<b>SIR872ADP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 150V 53.7A PPAK SO-8	<b>SIR874DP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 25V 20A PPAK SO-8	<b>SIR866DP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 20V 60A PPAK SO-8	<b>SIR866DP-T1-GE3 MOS</b> Electro-Films (EFI) / Vishay	<b>SIR866DP</b> SI	<b>SiR864DP</b> Electro-Films (EFI) / Vishay
					
<b>SiR866DP-T1-E3</b> Electro-Films (EFI) / Vishay	<b>SIR862DP-TI-GE3</b> VISHY	<b>SIR876ADP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 100V 40A PPAK SO-8	<b>SIR864DP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 30V 40A PPAK SO-8	<b>SIR872ADP-T1-RE3</b> Vishay Siliconix MOSFET N-CH 150V 53.7A PPAK SO-8	<b>SIR870ADP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 100V 60A PPAK SO-8
					
<b>SIR864DP-T1-GE3 MOS</b> Electro-Films (EFI) / Vishay	<b>SIR862DP-T1-GE3 MOS</b> Electro-Films (EFI) / Vishay	<b>SIR876DP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 100V 40A PPAK SO-8	<b>SIR873DP-T1-GE3</b> Vishay Siliconix MOSFET P-CH 150V 37A PPAK SO-8	<b>SIR872DP-T1-GE3</b> Vishay Siliconix MOSFET N-CH 150V 53.7A PPAK SO-8	<b>SIR872ADP-T1-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.

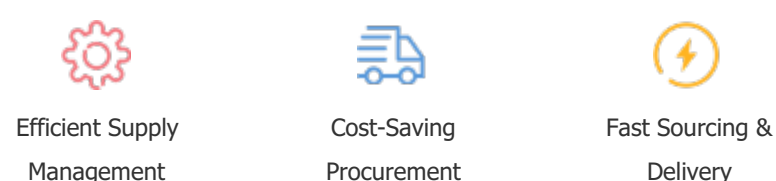
### Payment Support

The payment method can be chosen from the methods shown below:

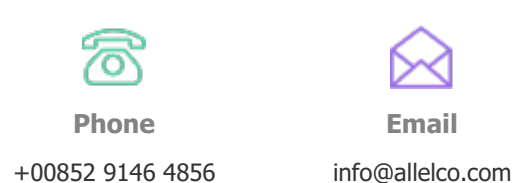
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



### Your Faithful Supply Chain Partner -



Contact us if you have any questions.



### Certifications & Memberships



View More