





SI7880ADP-T1-E3

Manufacturer Part Number	SI7880ADP-T1-E3
Manufacturer	Vishay / Siliconix
Allelco Part Number	32D-SI7880ADP-T1-E3
ECAD Model	 Request Free CAD Models
Parts Description	MOSFET N-CH 30V 40A PPAK SO-8
Package	PowerPAK® SO-8
Data sheet	SI7880ADP.pdf
RoHs Status	 ROHS3 Compliant



Get a Quote

SI7880ADP-T1-E3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SI7880ADP-T1-E3 datasheet/specifications on AllelcoElec.com.

Request a quote for SI7880ADP-T1-E3, please send us email: info@allelco.com

Specifications





SI7880ADP-T1-E3 Tech Specifications

SI7880ADP-T1-E3 - 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	5600 pF @ 15 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	125 nC @ 10 V
Supplier Device Package	PowerPAK® SO-8	FET Type	N-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	3mOhm @ 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)	30 V
Package / Case	PowerPAK® SO-8	Current - Continuous Drain (Id) @ 25°C	40A (Tc)
Package	Tape & Reel (TR)	Base Product Number	SI7880

Parts with Similar Specifications


The three parts on the right have similar specifications to Vishay Siliconix SI7880ADP-T1-E3

Product Attribute	 NO PICTURE			
Part Number	SI7880ADP-T1-E3	SI7880ADP-T1-GE3	SI7882DP-T1-GE3	SI7882DP-T1-E3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Package / Case	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	3mOhm @ 20A, 10V	3mOhm @ 20A, 10V	5.5mOhm @ 17A, 4.5V	5.5mOhm @ 17A, 4.5V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	2.5V, 4.5V	2.5V, 4.5V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Vgs (Max)	±20V	±20V	±8V	±8V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Power Dissipation (Max)	5.4W (Ta), 83W (Tc)	5.4W (Ta), 83W (Tc)	1.9W (Ta)	1.9W (Ta)
Series	TrenchFET®	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	125 nC @ 10 V	125 nC @ 10 V	30 nC @ 4.5 V	30 nC @ 4.5 V
Drain to Source Voltage (Vdss)	30 V	30 V	12 V	12 V
Supplier Device Package	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Input Capacitance (Ciss) (Max) @ Vds	5600 pF @ 15 V	5600 pF @ 15 V	-	-
Base Product Number	SI7880	SI7880	SI7882	SI7882
Current - Continuous Drain (Id) @ 25°C	40A (Tc)	40A (Tc)	13A (Ta)	13A (Ta)
Vgs(th) (Max) @ Id	3V @ 250µA	3V @ 250µA	1.4V @ 250µA	1.4V @ 250µA


SI7880ADP-T1-E3 Datasheet PDF

Download SI7880ADP-T1-E3 pdf datasheets and Vishay Siliconix documentation for SI7880ADP-T1-E3 - Vishay Siliconix.

Datasheets


Si7880ADP.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

 SI786LG-T1 Electro-Films (EFI) / Vishay	 SI786LG SIX	 SI7880ADP-T1-GE3 Vishay Siliconix MOSFET N-CH 30V 40A PPAK SO-8	 SI7872DP-T1-E3 Vishay Siliconix MOSFET 2N-CH 30V 6.4A PPAK SO-8	 SI7872DP SI	 SI7872DP-T1-E3 MOS Electro-Films (EFI) / Vishay
 SI7880DP-T1 Electro-Films (EFI) / Vishay	 SI7872DP-T1-GE3 MOS Electro-Films (EFI) / Vishay	 SI7882DP-T1-GE3 Vishay Siliconix MOSFET N-CH 12V 13A PPAK SO-8	 SI7880ADP-T1-E3 MOS Electro-Films (EFI) / Vishay	 SI7882DP SI	 SI7880ADP SI
 SI7884BDP SI	 SI7880DP-T1-GE3 Electro-Films (EFI) / Vishay	 SI7880DP-T1-E3 Electro-Films (EFI) / Vishay	 SI7882DP-T1-E3 Vishay Siliconix MOSFET N-CH 12V 13A PPAK SO-8	 SI7872DP-T1-GE3 Vishay Siliconix MOSFET 2N-CH 30V 6.4A PPAK SO-8	 SI786LG-T1-E3 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.

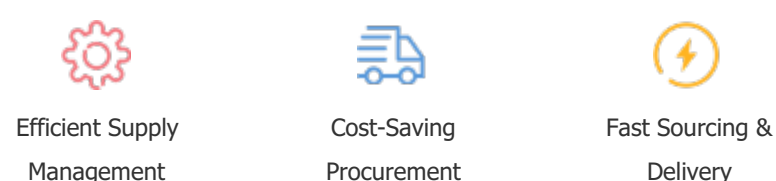
Payment Support

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

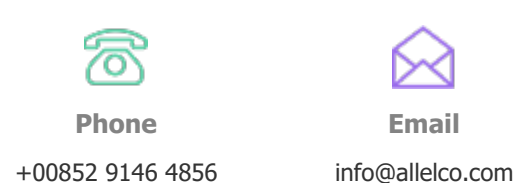
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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