



SI7858ADP-T1-GE3

Manufacturer Part Number	SI7858ADP-T1-GE3
Manufacturer	Vishay / Siliconix
Allelco Part Number	32D-SI7858ADP-T1-GE3
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 12V 20A PPAK SO-8
Package	PowerPAK® SO-8
Data sheet	SI7858ADP-T1-GE3.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

SI7858ADP-T1-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SI7858ADP-T1-GE3 datasheet/specifications on AllelcoElec.com.
Request a quote for SI7858ADP-T1-GE3, please send us email: info@allelco.com

Specifications

SI7858ADP-T1-GE3 Tech Specifications
SI7858ADP-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	1.5V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±8V	Input Capacitance (Ciss) (Max) @ Vds	5700 pF @ 6 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	80 nC @ 4.5 V
Supplier Device Package	PowerPAK® SO-8	FET Type	N-Channel
Series	TrenchFET®	FET Feature	-
Rds On (Max) @ Id, Vgs	2.6mOhm @ 29A, 4.5V	Drive Voltage (Max Rds On, Min Rds On)	2.5V, 4.5V
Power Dissipation (Max)	1.9W (Ta)	Drain to Source Voltage (Vdss)	12 V
Package / Case	PowerPAK® SO-8	Current - Continuous Drain (Id) @ 25°C	20A (Ta)
Package	Tape & Reel (TR)	Base Product Number	SI7858

Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SI7858ADP-T1-GE3

Product Attribute				
Part Number	SI7858ADP-T1-GE3	SI7856ADP-T1-E3	SI7860ADP-T1-GE3	SI7856ADP-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
FET Feature	-	-	-	-
Supplier Device Package	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Input Capacitance (Ciss) (Max) @ Vds	5700 pF @ 6 V	-	-	-
Current - Continuous Drain (Id) @ 25°C	20A (Ta)	15A (Ta)	11A (Ta)	15A (Ta)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8	PowerPAK® SO-8
Drain to Source Voltage (Vdss)	12 V	30 V	30 V	30 V
Base Product Number	SI7858	SI7856	SI7860	SI7856
Rds On (Max) @ Id, Vgs	2.6mOhm @ 29A, 4.5V	3.7mOhm @ 25A, 10V	9.5mOhm @ 16A, 10V	3.7mOhm @ 25A, 10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs (Max)	±8V	±20V	±20V	±20V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Series	TrenchFET®	TrenchFET®	TrenchFET®	TrenchFET®
Power Dissipation (Max)	1.9W (Ta)	1.9W (Ta)	1.8W (Ta)	1.9W (Ta)
Vgs(th) (Max) @ Id	1.5V @ 250µA	3V @ 250µA	3V @ 250µA	3V @ 250µA
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Gate Charge (Qg) (Max) @ Vgs	80 nC @ 4.5 V	55 nC @ 4.5 V	18 nC @ 4.5 V	55 nC @ 4.5 V
Drive Voltage (Max Rds On, Min Rds On)	2.5V, 4.5V	4.5V, 10V	4.5V, 10V	4.5V, 10V

SI7858ADP-T1-GE3 Datasheet PDF

Download SI7858ADP-T1-GE3 pdf datasheets and Vishay Siliconix documentation for SI7858ADP-T1-GE3 - Vishay Siliconix.

PCN Design/Specification



















Mult Dev 07/Jun/2023.pdf	New solder paste 26/May/2023.pdf
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PCN Assembly/Origin

New Solder Plating Site 18/Apr/2023.pdf

Customers Also Interested in

Recommended Products

 SI7860ADP-TI-E3 Electro-Films (EFI) / Vishay	 SI7856DP-T1-GE3 Electro-Films (EFI) / Vishay	 SI7858DP-T1-GE3 Electro-Films (EFI) / Vishay	 SI7856ADP-T1-E3 Vishay Siliconix MOSFET N-CH 30V 15A PPAK SO-8	 SI7860ADP SI	 SI7858ADP-T1-E3 MOS Electro-Films (EFI) / Vishay
 SI7860ADP-T1-GE3 Vishay Siliconix MOSFET N-CH 30V 11A PPAK SO-8	 SI7856ADP-T1-GE3 Vishay Siliconix MOSFET N-CH 30V 15A PPAK SO-8	 SI7858ADP SI	 SI7860DP SI	 SI7856DP-TI-E3 Electro-Films (EFI) / Vishay	 SI7858ADP-T1-E3 Vishay Siliconix MOSFET N-CH 12V 20A PPAK SO-8
 SI7858DP-T1 Electro-Films (EFI) / Vishay	 SI7856DP-T1 Electro-Films (EFI) / Vishay	 SI7858BDP-T1-GE3 Vishay Siliconix MOSFET N-CH 12V 40A PPAK SO-8	 SI7860DP-T1-E3 Vishay Siliconix MOSFET N-CH 30V 11A PPAK SO-8	 SI7860ADP-T1-E3 Vishay Siliconix MOSFET N-CH 30V 11A PPAK SO-8	 SI7856ADP-T1 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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-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

Contact us if you have any questions.

-  Phone
+00852 9146 4856
-  Email
info@allelco.com

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