



### SI7882DP-T1-GE3 Information



For Reference Only

Part Number SI7882DP-T1-GE3
Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 12V 13A PPAK SO-8

Package PowerPAK? SO-8

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



Request a Quote

# **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## SI7882DP-T1-GE3 Specifications

Manufacturer Part Number         SI7882DP-TI-GE3           Manufacturer         Vishay Siliconix           Category         Discrete Semiconductor Products		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackagePowerPAK? SO-8SeriesTrenchFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C13A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.4V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds-Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.9W (Ta)Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Manufacturer Part Number	SI7882DP-T1-GE3
Package         PowerPAK? SO-8           Series         TrenchFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         12V           Current - Continuous Drain (Id) @ 25°C         13A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         2.5V, 4.5V           Vgs(th) (Max) @ Id         1.4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         30nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         -           Vgs (Max)         ±8V           FET Feature         -           Power Dissipation (Max)         1.9W (Ta)           Rds On (Max) @ Id, Vgs         5.5 mOhm @ 17A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         PowerPAK? SO-8           Package / Case         PowerPAK? SO-8	Manufacturer	Vishay Siliconix
PackagePowerPAK? SO-8SeriesTrenchFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C13A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.4V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds-Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.9W (Ta)Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Category	Discrete Semiconductor Products
SeriesTrenchFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C13A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.4V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds-Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.9W (Ta)Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8		Transistors - FETs, MOSFETs - Single
FET Type  Rechnology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  12V  Current - Continuous Drain (Id) @ 25°C  13A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Derating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  PowerPAK? SO-8  PowerPAK? SO-8  PowerPAK? SO-8	Package	PowerPAK? SO-8
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C13A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.4V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds-Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.9W (Ta)Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Series	TrenchFET?
Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C13A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.4V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds-Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.9W (Ta)Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  2.5V, 4.5V  Vgs(th) (Max) @ Id  1.4V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  - Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Derating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  PowerPAK? SO-8  Package / Case	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)2.5V, 4.5VVgs(th) (Max) @ Id1.4V @ 250μAGate Charge (Qg) (Max) @ Vgs30nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds-Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.9W (Ta)Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Drain to Source Voltage (Vdss)	12V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 30nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds - Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case	Current - Continuous Drain (Id) @ 25°C	13A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds	Drive Voltage (Max Rds On, Min Rds On)	2.5V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max) ±8V  FET Feature -  Power Dissipation (Max) 1.9W (Ta)  Rds On (Max) @ Id, Vgs 5.5 mOhm @ 17A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package PowerPAK? SO-8  Package / Case PowerPAK? SO-8	Vgs(th) (Max) @ Id	1.4V @ 250μA
Vgs (Max) ±8V  FET Feature -  Power Dissipation (Max) 1.9W (Ta)  Rds On (Max) @ Id, Vgs 5.5 mOhm @ 17A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package PowerPAK? SO-8  Package / Case PowerPAK? SO-8	Gate Charge (Qg) (Max) @ Vgs	30nC @ 4.5V
FET Feature -  Power Dissipation (Max) 1.9W (Ta)  Rds On (Max) @ Id, Vgs 5.5 mOhm @ 17A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package PowerPAK? SO-8  Package / Case PowerPAK? SO-8	Input Capacitance (Ciss) (Max) @ Vds	-
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  5.5 mOhm @ 17A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  PowerPAK? SO-8  Package / Case  PowerPAK? SO-8	Vgs (Max)	±8V
Rds On (Max) @ Id, Vgs5.5 mOhm @ 17A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  PowerPAK? SO-8  Package / Case  PowerPAK? SO-8	Power Dissipation (Max)	1.9W (Ta)
Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Rds On (Max) @ Id, Vgs	5.5 mOhm @ 17A, 4.5V
Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case PowerPAK? SO-8	Mounting Type	Surface Mount
•	Supplier Device Package	PowerPAK? SO-8
Report errors?	Package / Case	PowerPAK? SO-8
		Report errors?

### SI7882DP-T1-GE3 Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

# SI7882DP-T1-GE3 Payment Methods



















### SI7882DP-T1-GE3 Shipping Methods













If you have any question about SI7882DP-T1-GE3, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com