



#### SI7880ADP-T1-E3 Information



For Reference Only

Part Number SI7880ADP-T1-E3
Manufacturer Vishay Siliconix

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 30V 40A 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



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## SI7880ADP-T1-E3 Specifications

Manufacturer Part Number         SI7880ADP-T1-E3           Manufacturer         Vishay Siliconix           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         PowerPAK? SO-8           Series         TrenchFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         40A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         125nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         5600pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         5.4W (Ta), 83W (Tc)           Rds On (Max) @ Id, Vgs         3 mOhm @ 20A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         PowerPAK? SO-8           Package / Case         PowerPAK? SO-8		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package PowerPAK? SO-8 Series TrenchFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Ourrent - Continuous Drain (Id) @ 25°C 40A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 125nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 3 mOhm @ 20A, 10V Operating Temperature Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 PowerPAK? SO-8 PowerPAK? SO-8	Manufacturer Part Number	SI7880ADP-T1-E3
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TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C40A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs125nC @ 10VInput Capacitance (Ciss) (Max) @ Vds5600pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)5.4W (Ta), 83W (Tc)Rds On (Max) @ Id, Vgs3 mOhm @ 20A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackagePowerPAK? SO-8Package / CasePowerPAK? SO-8	Series	TrenchFET?
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Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  125nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  3 mOhm @ 20A, 10V  Operating Temperature  Supplier Device Package  PowerPAK? SO-8  Package / Case  40A (Tc)  45°V, 10V  3 V @ 250µA  5600pF @ 15V  5600pF @ 15V  5600pF @ 15V  5700 (Ti)  Supplier Device Package  PowerPAK? SO-8	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  3V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  125nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Star (Ta), 83W (Tc)  Rds On (Max) @ Id, Vgs  3 mOhm @ 20A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  PowerPAK? SO-8  Package / Case	Drain to Source Voltage (Vdss)	30V
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Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 5.4W (Ta), 83W (Tc)  Rds On (Max) @ Id, Vgs 3 mOhm @ 20A, 10V  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	125nC @ 10V
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Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  3 mOhm @ 20A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  PowerPAK? SO-8  Package / Case  PowerPAK? SO-8	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs3 mOhm @ 20A, 10VOperating 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)	5.4W (Ta), 83W (Tc)
Mounting Type Surface Mount Supplier Device Package PowerPAK? SO-8 Package / Case PowerPAK? SO-8	Rds On (Max) @ Id, Vgs	3 mOhm @ 20A, 10V
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
č	Supplier Device Package	PowerPAK? SO-8
Report errors?	Package / Case	PowerPAK? SO-8
		Report errors?

#### SI7880ADP-T1-E3 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.

### SI7880ADP-T1-E3 Payment Methods



















### SI7880ADP-T1-E3 Shipping Methods













If you have any question about SI7880ADP-T1-E3, please do not hesitate to contact us!

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