



### **FDW258P Information**



For Reference Only

Part Number FDW258P

ManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor Products<br/>Transistors - FETs, MOSFETs - Single

**Description** MOSFET P-CH 12V 9A 8-TSSOP **Package** 8-TSSOP (0.173", 4.40mm Width)

For the pricing/inventory/lead time, please contact

us

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



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## **FDW258P Specifications**

Manufacturer Part Number         FDW258P           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         8-TSSOP (0.173", 4.40mm Width)           Series         PowerTrench?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         12V           Current - Continuous Drain (Id) @ 25°C         9A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         1.8V, 4.5V           Vgs(th) (Max) @ Id         1.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         73nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         5049pF @ 5V           Vgs (Max)         E8V           FET Feature         -           Power Dissipation (Max)         1.3W (Ta)           Rds On (Max) @ Id, Vgs         11 mOhm @ 9A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-TSSOP           Package / Case         8-TSSOP (0.173", 4.40mm Width)		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         8-TSSOP (0.173", 4.40mm Width)           Series         PowerTrench?           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         12V           Current - Continuous Drain (Id) @ 25°C         9A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         1.8V, 4.5V           Vgs(th) (Max) @ Id         1.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         73nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         5049pF @ 5V           Vgs (Max)         ±8V           FET Feature         -           Power Dissipation (Max)         1.3W (Ta)           Rds On (Max) @ Id, Vgs         11 mOhm @ 9A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-TSSOP           Package / Case         8-TSSOP (0.173", 4.40mm Width)	Manufacturer Part Number	FDW258P
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Package8-TSSOP (0.173", 4.40mm Width)SeriesPowerTrench?FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs73nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5049pF @ 5VVgs (Max)±8VFET Feature-Power Dissipation (Max)1.3W (Ta)Rds On (Max) @ Id, Vgs11 mOhm @ 9A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-TSSOPPackage / Case8-TSSOP (0.173", 4.40mm Width)	Category	Discrete Semiconductor Products
SeriesPowerTrench?FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs73nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5049pF @ 5VVgs (Max)±8VFET Feature-Power Dissipation (Max)1.3W (Ta)Rds On (Max) @ Id, Vgs11 mOhm @ 9A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-TSSOPPackage / Case8-TSSOP (0.173", 4.40mm Width)		Transistors - FETs, MOSFETs - Single
FET Type P-Channel Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 12V Current - Continuous Drain (Id) @ 25°C 9A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 1.8V, 4.5V Vgs(th) (Max) @ Id 1.5V @ 250μA  Gate Charge (Qg) (Max) @ Vgs 73nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 5049pF @ 5V Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 8-TSSOP (0.173", 4.40mm Width)	Package	8-TSSOP (0.173", 4.40mm Width)
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)12VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs73nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5049pF @ 5VVgs (Max)±8VFET Feature-Power Dissipation (Max)1.3W (Ta)Rds On (Max) @ Id, Vgs11 mOhm @ 9A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-TSSOPPackage / Case8-TSSOP (0.173", 4.40mm Width)	Series	PowerTrench?
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Current - Continuous Drain (Id) @ 25°C  Prive Voltage (Max Rds On, Min Rds On)  1.8V, 4.5V  Vgs(th) (Max) @ Id  1.5V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  73nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  5049pF @ 5V  Vgs (Max)  ±8V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  11 mOhm @ 9A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-TSSOP (0.173", 4.40mm Width)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs73nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds5049pF @ 5VVgs (Max)±8VFET Feature-Power Dissipation (Max)1.3W (Ta)Rds On (Max) @ Id, Vgs11 mOhm @ 9A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-TSSOPPackage / Case8-TSSOP (0.173", 4.40mm Width)	Drain to Source Voltage (Vdss)	12V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  73nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  5049pF @ 5V  Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  11 mOhm @ 9A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-TSSOP (0.173", 4.40mm Width)	Current - Continuous Drain (Id) @ 25°C	9A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  5049pF @ 5V  Vgs (Max)  ±8V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  11 mOhm @ 9A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-TSSOP (0.173", 4.40mm Width)	Drive Voltage (Max Rds On, Min Rds On)	1.8V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  11 mOhm @ 9A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-TSSOP (0.173", 4.40mm Width)	Vgs(th) (Max) @ Id	1.5V @ 250μA
Vgs (Max)±8VFET Feature-Power Dissipation (Max)1.3W (Ta)Rds On (Max) @ Id, Vgs11 mOhm @ 9A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-TSSOPPackage / Case8-TSSOP (0.173", 4.40mm Width)	Gate Charge (Qg) (Max) @ Vgs	73nC @ 4.5V
FET Feature -  Power Dissipation (Max) 1.3W (Ta)  Rds On (Max) @ Id, Vgs 11 mOhm @ 9A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 8-TSSOP  Package / Case 8-TSSOP (0.173", 4.40mm Width)	Input Capacitance (Ciss) (Max) @ Vds	5049pF @ 5V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  11 mOhm @ 9A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-TSSOP  Package / Case  8-TSSOP (0.173", 4.40mm Width)	Vgs (Max)	±8V
Rds On (Max) @ Id, Vgs 11 mOhm @ 9A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 8-TSSOP  Package / Case 8-TSSOP (0.173", 4.40mm Width)	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-TSSOP  Package / Case  8-TSSOP (0.173", 4.40mm Width)	Power Dissipation (Max)	1.3W (Ta)
Mounting Type Surface Mount Supplier Device Package 8-TSSOP Package / Case 8-TSSOP (0.173", 4.40mm Width)	Rds On (Max) @ Id, Vgs	11 mOhm @ 9A, 4.5V
Supplier Device Package 8-TSSOP Package / Case 8-TSSOP (0.173", 4.40mm Width)	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 8-TSSOP (0.173", 4.40mm Width)	Mounting Type	Surface Mount
	Supplier Device Package	8-TSSOP
Report errors?	Package / Case	8-TSSOP (0.173", 4.40mm Width)
		Report errors?

### **FDW258P 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.

### FDW258P Payment Methods



















### FDW258P Shipping Methods













If you have any question about FDW258P, please do not hesitate to contact us!

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