

### FDD8878 Information



For Reference Only

Part Number FDD8878

Manufacturer Fairchild/ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

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

Package TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

us

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



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# **FDD8878 Specifications**

Manufacturer Part Number         FDD8878           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         11A (Ta), 40A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         26nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         880pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         40W (Tc)           Rds On (Max) @ Id, Vgs         15 mOhm @ 35A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252AA           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         11A (Ta), 40A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         26nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         880pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         40W (Tc)           Rds On (Max) @ Id, Vgs         15 mOhm @ 35A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252AA	Manufacturer Part Number	FDD8878
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Series PowerTrench?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 30V  Current - Continuous Drain (Id) @ 25°C 11A (Ta), 40A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V  Vgs(th) (Max) @ Id 2.5V @ 250µA  Gate Charge (Qg) (Max) @ Vgs 26nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 880pF @ 15V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 40W (Tc)  Rds On (Max) @ Id, Vgs 15 mOhm @ 35A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 170-252AA		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  11A (Ta), 40A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Cate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  15 mOhm @ 35A, 10V  Operating Temperature  Supplier Device Package  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  AUSFET (Metal Oxide)  30V  Current - Continuous Drain (Mex)  4.5V, 10V  2.5V @ 250μA  26nC @ 10V  880pF @ 15V  Ygs (Max)  +20V  FET Feature	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C11A (Ta), 40A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs26nC @ 10VInput Capacitance (Ciss) (Max) @ Vds880pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)40W (Tc)Rds On (Max) @ Id, Vgs15 mOhm @ 35A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AA	Series	PowerTrench?
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Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  15 mOhm @ 35A, 10V  Operating Temperature  Operating Type  Surface Mount  Supplier Device Package  880pF @ 15V  40W (Tc)  FET Feature	Vgs(th) (Max) @ Id	2.5V @ 250μA
Vgs (Max) $\pm 20 \text{V}$ FET Feature-Power Dissipation (Max) $40 \text{W}$ (Tc)Rds On (Max) @ Id, Vgs $15 \text{ mOhm } @ 35 \text{A}, 10 \text{V}$ Operating Temperature $-55^{\circ}\text{C} \sim 175^{\circ}\text{C}$ (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AA	Gate Charge (Qg) (Max) @ Vgs	26nC @ 10V
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Rds On (Max) @ Id, Vgs15 mOhm @ 35A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AA	FET Feature	-
Operating Temperature $-55^{\circ}\text{C} \sim 175^{\circ}\text{C} \text{ (TJ)}$ Mounting TypeSurface MountSupplier Device PackageTO-252AA	Power Dissipation (Max)	40W (Tc)
Mounting Type Surface Mount Supplier Device Package TO-252AA	Rds On (Max) @ Id, Vgs	15 mOhm @ 35A, 10V
Supplier Device Package TO-252AA	Operating Temperature	-55°C ~ 175°C (TJ)
	Mounting Type	Surface Mount
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Supplier Device Package	TO-252AA
	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
Report errors?		Report errors?

### FDD8878 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.

## **FDD8878 Payment Methods**





















### **FDD8878 Shipping Methods**













If you have any question about FDD8878, please do not hesitate to contact us!

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