



# **FDD6630A Information**



For Reference Only

Part Number FDD6630A

Manufacturer Fairchild/ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 30V 21A D-PAK

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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# FDD6630A Specifications

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         21A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         7nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         462pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         28W (Ta)           Rds On (Max) @ Id, Vgs         35 mOhm @ 7.6A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252-3, DPak (2 Leads + Tab), SC-63	W. C. D. W. I	EDD (COO)
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         21A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         7nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         462pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         28W (Ta)           Rds On (Max) @ Id, Vgs         35 mOhm @ 7.6A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	FDD6630A
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         21A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         7nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         462pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         28W (Ta)           Rds On (Max) @ Id, Vgs         35 mOhm @ 7.6A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Fairchild/ON Semiconductor
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         21A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         7nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         462pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         28W (Ta)           Rds On (Max) @ Id, Vgs         35 mOhm @ 7.6A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
SeriesPowerTrench?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C21A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs7nC @ 5VInput Capacitance (Ciss) (Max) @ Vds462pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)28W (Ta)Rds On (Max) @ Id, Vgs35 mOhm @ 7.6A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         21A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         7nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         462pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         28W (Ta)           Rds On (Max) @ Id, Vgs         35 mOhm @ 7.6A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 21A (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 Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case MOSFET (Metal Oxide) 30V AOSFET (Metal Oxide) 30V AUSE (Metal Oxide) 30V AUSE (Metal Oxide) 4.5V, 10V A.5V, 10V	Series	PowerTrench?
Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C21A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs7nC @ 5VInput Capacitance (Ciss) (Max) @ Vds462pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)28W (Ta)Rds On (Max) @ Id, Vgs35 mOhm @ 7.6A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  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  Operating Temperature  Supplier Device Package  Package / Case  21A (Ta)  22B (Ta)  34 (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  3V @ 250μA  7nC @ 5V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  35 mOhm @ 7.6A, 10V  Operating Temperature  Surface Mount  Supplier Device Package  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	30V
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  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	21A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  462pF @ 15V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  35 mOhm @ 7.6A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  35 mOhm @ 7.6A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	3V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)28W (Ta)Rds On (Max) @ Id, Vgs35 mOhm @ 7.6A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	7nC @ 5V
FET Feature -  Power Dissipation (Max) 28W (Ta)  Rds On (Max) @ Id, Vgs 35 mOhm @ 7.6A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	462pF @ 15V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  35 mOhm @ 7.6A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs35 mOhm @ 7.6A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  TO-252  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	28W (Ta)
Mounting Type Surface Mount TO-252 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	35 mOhm @ 7.6A, 10V
Supplier Device Package TO-252 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	TO-252
	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
Report errors?		Report errors?

### FDD6630A 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.

### FDD6630A Payment Methods



















### FDD6630A Shipping Methods













If you have any question about FDD6630A, please do not hesitate to contact us!

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