



### FDD16AN08A0 Information



For Reference Only

Part Number FDD16AN08A0

ManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor Products<br/>Transistors - FETs, MOSFETs - SingleDescriptionMOSFET N-CH 75V 50A 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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# FDD16AN08A0 Specifications

Manufacturer Part Number         FDD16AN08A0           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         9A (Ta), 50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         47nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1874pF @ 25V           Vgs (Max)         ±20V           EET Feature         -           Power Dissipation (Max)         135W (Tc)           Rds On (Max) @ Id, Vgs         16 mOhm @ 50A, 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         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         9A (Ta), 50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         47nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1874pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         135W (Tc)           Rds On (Max) @ Id, Vgs         16 mOhm @ 50A, 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	Manufacturer Part Number	FDD16AN08A0
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         9A (Ta), 50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         47nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1874pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         135W (Tc)           Rds On (Max) @ Id, Vgs         16 mOhm @ 50A, 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	Manufacturer	Fairchild/ON Semiconductor
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         9A (Ta), 50A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         47nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1874pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         135W (Tc)           Rds On (Max) @ Id, Vgs         16 mOhm @ 50A, 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
SeriesUltraFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)75VCurrent - Continuous Drain (Id) @ 25°C9A (Ta), 50A (Tc)Drive Voltage (Max Rds On, Min Rds On)6V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1874pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)135W (Tc)Rds On (Max) @ Id, Vgs16 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  75V  Current - Continuous Drain (Id) @ 25°C  9A (Ta), 50A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  #20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  N-CMAN  MOSFET (Metal Oxide)  #40	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Prive 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 Ingus Temperature Poperating Temperature Supplier Device Package Package / Case  MOSFET (Metal Oxide) 75V PAC (To) PAC (To) PAC (TJ) Surface Mount TO-252AA Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Series	UltraFET?
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  Prive 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  75V  9A (Ta), 50A (Tc)  9A (Ta), 50A (Tc)  9A (Ta), 50A (Tc)  9A (Ta), 50A (Tc)  16V  9A (Ta), 50A (Tc)  18V (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 9A (Ta), 50A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 6V, 10V  Vgs(th) (Max) @ Id 4V @ 250μA  Gate Charge (Qg) (Max) @ Vgs 47nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 1874pF @ 25V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 135W (Tc)  Rds On (Max) @ Id, Vgs 16 mOhm @ 50A, 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	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  I6 mOhm @ 50A, 10V  Operating Temperature  Surface Mount  Supplier Device Package  TO-252-A, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	75V
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  TO-252-A, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	9A (Ta), 50A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1874pF @ 25V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  16 mOhm @ 50A, 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	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Input Capacitance (Ciss) (Max) @ Vds  1874pF @ 25V  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  16 mOhm @ 50A, 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	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)135W (Tc)Rds On (Max) @ Id, Vgs16 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	47nC @ 10V
FET Feature -  Power Dissipation (Max) 135W (Tc)  Rds On (Max) @ Id, Vgs 16 mOhm @ 50A, 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	Input Capacitance (Ciss) (Max) @ Vds	1874pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  16 mOhm @ 50A, 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	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs  16 mOhm @ 50A, 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	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  TO-252AA  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	135W (Tc)
Mounting Type Surface Mount TO-252AA Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	16 mOhm @ 50A, 10V
Supplier Device Package TO-252AA 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-252AA
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### FDD16AN08A0 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.

### FDD16AN08A0 Payment Methods



















## FDD16AN08A0 Shipping Methods













If you have any question about FDD16AN08A0, please do not hesitate to contact us!

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