



# **FQD3N50CTF Information**



For Reference Only

Part Number FQD3N50CTF

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

**Description** MOSFET N-CH 500V 2.5A 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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# **FQD3N50CTF Specifications**

Manufacturer Part Number         FQD3N50CTF           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         QFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         2.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         13nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         365pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         35W (Tc)           Rds On (Max) @ Id, Vgs         2.5 Ohm @ 1.25A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D-Pak           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesQFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C2.5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds365pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)35W (Tc)Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	FQD3N50CTF
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SeriesQFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C2.5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds365pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)35W (Tc)Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C2.5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds365pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)35W (Tc)Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C2.5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds365pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)35W (Tc)Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	QFET?
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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  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.5 Ohm @ 1.25A, 10V  Operating Temperature  Supplier Device Package  Package / Case  2.5 A (Tc)  3.5 A (Tc)  4.5 A (Tc)  4.	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds365pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)35W (Tc)Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	500V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  As Sym (Tc)  Rds On (Max) @ Id, Vgs  Operating Temperature  Supplier Device Package  Package / Case  4V @ 250μA  4V @ 250μA  4V @ 250μA  13nC @ 10V  365pF @ 25V  25V  25V  25V  25V  25V  25V  25V	Current - Continuous Drain (Id) @ 25°C	2.5A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Joyc (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  13nC @ 10V  365pF @ 25V  ±30V  ±30V  Edit (Tc)  2.5 Ohm @ 1.25A, 10V  Coperating Temperature  Joyc (TJ)  Surface Mount  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.5 Ohm @ 1.25A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±30VFET Feature-Power Dissipation (Max)35W (Tc)Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	13nC @ 10V
FET Feature -  Power Dissipation (Max) 35W (Tc)  Rds On (Max) @ Id, Vgs 2.5 Ohm @ 1.25A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	365pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.5 Ohm @ 1.25A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs2.5 Ohm @ 1.25A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD-PakPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D-Pak  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	35W (Tc)
Mounting Type Surface Mount  Supplier Device Package D-Pak  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	2.5 Ohm @ 1.25A, 10V
Supplier Device Package D-Pak Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	D-Pak
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

## **FQD3N50CTF 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.

## **FQD3N50CTF Payment Methods**



















## **FQD3N50CTF Shipping Methods**













If you have any question about FQD3N50CTF, please do not hesitate to contact us!

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