



FQPF5N50CT Information



For Reference Only

Part Number FQPF5N50CT

Manufacturer Fairchild/ON Semiconductor Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single MOSFET N-CH 500V 5A TO-220F

Description

TO-220-3 Full Pack **Package**

For the pricing/inventory/lead time, please contact

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



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FQPF5N50CT Specifications

Manufacturer Part Number FQPFSN50CT Manufacturer Fairchild/ON Semiconductor Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-220-3 Full Pack Series QFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 5A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 625pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 38W (Tc) Rds On (Max) @ Id, Vgs 1.4 Ohm @ 2.5A, 10V Operating Temperature .55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-220-3 Full Pack Series QFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Toain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C SA (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 1nput Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ 1d, Vgs 1.4 Ohm @ 2.5A, 10V Operating Temperature Mounting Type Supplier Device Package Package / Case TO-220F Package / Case	Manufacturer Part Number	FQPF5N50CT
Package TO-220-3 Full Pack Series QFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 5A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 625pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 38W (Tc) Rds On (Max) @ Id, Vgs 1.4 Ohm @ 2.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	Manufacturer	Fairchild/ON Semiconductor
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Series QFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 5A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 625pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 38W (Tc) Rds On (Max) @ Id, Vgs 1.4 Ohm @ 2.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds625pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)38W (Tc)Rds On (Max) @ Id, Vgs1.4 Ohm @ 2.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPackage / CaseTO-220-3 Full Pack	Package	TO-220-3 Full Pack
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds625pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)38W (Tc)Rds On (Max) @ Id, Vgs1.4 Ohm @ 2.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPackage / CaseTO-220-3 Full Pack	Series	QFET?
Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds625pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)38W (Tc)Rds On (Max) @ Id, Vgs1.4 Ohm @ 2.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPackage / CaseTO-220-3 Full Pack	FET Type	N-Channel
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Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds625pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)38W (Tc)Rds On (Max) @ Id, Vgs1.4 Ohm @ 2.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPackage / CaseTO-220-3 Full Pack	Drain to Source Voltage (Vdss)	500V
Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	5A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 625pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.4 Ohm @ 2.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	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 1.4 Ohm @ 2.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±30VFET Feature-Power Dissipation (Max)38W (Tc)Rds On (Max) @ Id, Vgs1.4 Ohm @ 2.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPackage / CaseTO-220-3 Full Pack	Gate Charge (Qg) (Max) @ Vgs	24nC @ 10V
FET Feature - Graph of the Fet Feature - Set Feature - Supplier Device Package - TO-220F - Package / Case - TO-220-3 Full Pack	Input Capacitance (Ciss) (Max) @ Vds	625pF @ 25V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.4 Ohm @ 2.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs1.4 Ohm @ 2.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPackage / CaseTO-220-3 Full Pack	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	Power Dissipation (Max)	38W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	Rds On (Max) @ Id, Vgs	1.4 Ohm @ 2.5A, 10V
Supplier Device Package TO-220F Package / Case TO-220-3 Full Pack	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-220-3 Full Pack	Mounting Type	Through Hole
	Supplier Device Package	TO-220F
Report errors?	Package / Case	TO-220-3 Full Pack
		Report errors?

FQPF5N50CT 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.

FQPF5N50CT Payment Methods





















FQPF5N50CT Shipping Methods













If you have any question about FQPF5N50CT, please do not hesitate to contact us!

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