



STP8NM50FP Information



For Reference Only

Part Number STP8NM50FP
Manufacturer STMicroelectronics

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 550V 8A TO-220FP

Package TO-220-3 Full Pack

For the pricing/inventory/lead time, please contact

us

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



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Certified Quality

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









STP8NM50FP Specifications

Manufacturer Part Number STP8NM50FP Manufacturer STMicroelectronics Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-220-3 Full Pack Series MDmesh? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 550V Current - Continuous Drain (Id) @ 25°C 8A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 5V @ 250µA Gate Charge (Qg) (Max) @ Vgs 13nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 415pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 25W (Tc) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack		
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Series MDmesh? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 550V Current - Continuous Drain (Id) @ 25°C 8A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 5V @ 250μA Gate Charge (Qg) (Max) @ Vgs 13nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 415pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 25W (Tc) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)550VCurrent - Continuous Drain (Id) @ 25°C8A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds415pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs800 mOhm @ 2.5A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPPackage / CaseTO-220-3 Full Pack	Package	TO-220-3 Full Pack
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)550VCurrent - Continuous Drain (Id) @ 25°C8A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds415pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs800 mOhm @ 2.5A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPPackage / CaseTO-220-3 Full Pack	Series	MDmesh?
Drain to Source Voltage (Vdss)550 VCurrent - Continuous Drain (Id) @ 25°C8A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds415pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs800 mOhm @ 2.5A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPPackage / CaseTO-220-3 Full Pack	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C8A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds415pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs800 mOhm @ 2.5A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPPackage / CaseTO-220-3 Full Pack	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs13nC @ 10VInput Capacitance (Ciss) (Max) @ Vds415pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)25W (Tc)Rds On (Max) @ Id, Vgs800 mOhm @ 2.5A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220FPPackage / CaseTO-220-3 Full Pack	Drain to Source Voltage (Vdss)	550V
Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	8A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 415pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds 415pF @ 25V Vgs (Max) ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Vgs(th) (Max) @ Id	5V @ 250μA
Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 25W (Tc) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Gate Charge (Qg) (Max) @ Vgs	13nC @ 10V
FET Feature - Comparison (Max) 25W (Tc) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Input Capacitance (Ciss) (Max) @ Vds	415pF @ 25V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs 800 mOhm @ 2.5A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	FET Feature	-
Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Power Dissipation (Max)	25W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Rds On (Max) @ Id, Vgs	800 mOhm @ 2.5A, 10V
Supplier Device Package TO-220FP Package / Case TO-220-3 Full Pack	Operating Temperature	-65°C ~ 150°C (TJ)
Package / Case TO-220-3 Full Pack	Mounting Type	Through Hole
	Supplier Device Package	TO-220FP
Report errors?	Package / Case	TO-220-3 Full Pack
		Report errors?

STP8NM50FP 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.

STP8NM50FP Payment Methods



















STP8NM50FP Shipping Methods













If you have any question about STP8NM50FP, please do not hesitate to contact us!

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