



FDPF770N15A Information

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For Reference Only

Part Number FDPF770N15A

Manufacturer Fairchild/ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 150V 10A TO-220F

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.









FDPF770N15A Specifications

Manufacturer Part Number FDPF770N15A Manufacturer Fairchild/ON Semiconductor Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-220-3 Full Pack Series PowerTrench? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 150V Current - Continuous Drain (Id) @ 25°C 10A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 11.2nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 765pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 21W (Tc) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack		
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Series PowerTrench? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 150V Current - Continuous Drain (Id) @ 25°C 10A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 11.2nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 765pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 21W (Tc) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs11.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds765pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)21W (Tc)Rds On (Max) @ Id, Vgs77 mOhm @ 10A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220F-3Package / CaseTO-220-3 Full Pack	Package	TO-220-3 Full Pack
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs11.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds765pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)21W (Tc)Rds On (Max) @ Id, Vgs77 mOhm @ 10A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220F-3Package / CaseTO-220-3 Full Pack	Series	PowerTrench?
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Current - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs11.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds765pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)21W (Tc)Rds On (Max) @ Id, Vgs77 mOhm @ 10A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220F-3Package / CaseTO-220-3 Full Pack	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs11.2nC @ 10VInput Capacitance (Ciss) (Max) @ Vds765pF @ 75VVgs (Max)±20VFET Feature-Power Dissipation (Max)21W (Tc)Rds On (Max) @ Id, Vgs77 mOhm @ 10A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220F-3Package / CaseTO-220-3 Full Pack	Drain to Source Voltage (Vdss)	150V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 765pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 21W (Tc) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	10A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 765pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds 765pF @ 75V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)21W (Tc)Rds On (Max) @ Id, Vgs77 mOhm @ 10A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220F-3Package / CaseTO-220-3 Full Pack	Gate Charge (Qg) (Max) @ Vgs	11.2nC @ 10V
FET Feature - Power Dissipation (Max) 21W (Tc) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Input Capacitance (Ciss) (Max) @ Vds	765pF @ 75V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 77 mOhm @ 10A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs77 mOhm @ 10A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220F-3Package / CaseTO-220-3 Full Pack	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Power Dissipation (Max)	21W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220F-3 Package / Case TO-220-3 Full Pack	Rds On (Max) @ Id, Vgs	77 mOhm @ 10A, 10V
Supplier Device Package TO-220F-3 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-3
Report errors?	Package / Case	TO-220-3 Full Pack
		Report errors?

FDPF770N15A 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.

FDPF770N15A Payment Methods





















FDPF770N15A Shipping Methods













If you have any question about FDPF770N15A, please do not hesitate to contact us!

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