



AOT14N50FD Information

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Part Number AOT14N50FD

ManufacturerAlpha & Omega Semiconductor Inc.CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - Single

Description MOSFET N-CH 500V 14A TO220

Package TO-220-3

For the pricing/inventory/lead time, please contact

us

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AOT14N50FD Specifications

Manufacturer Part NumberAOT14N50FDManufacturerAlpha & Omega Semiconductor Inc.CategoryDiscrete Semiconductor Products Transistors - FETs, MOSFETs - SinglePackageTO-220-3Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2010pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3		
Category Discrete Semiconductor Products Package TO-220-3 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 500V Current - Continuous Drain (Id) @ 25°C 14A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 47nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2010pF @ 25V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 278W (Tc) Rds On (Max) @ Id, Vgs 470 mOhm @ 7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220 Package / Case TO-220-3	Manufacturer Part Number	AOT14N50FD
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FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2010pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	Package	TO-220-3
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2010pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	Series	-
Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2010pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2010pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs47nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2010pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	Drain to Source Voltage (Vdss)	500V
Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	14A (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 Jemperature Jemperatur	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 470 mOhm @ 7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220 Package / Case TO-220-3	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±30VFET Feature-Power Dissipation (Max)278W (Tc)Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	Gate Charge (Qg) (Max) @ Vgs	47nC @ 10V
FET Feature - Case - Case - TO-220-3	Input Capacitance (Ciss) (Max) @ Vds	2010pF @ 25V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 470 mOhm @ 7A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220 Package / Case TO-220-3	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs470 mOhm @ 7A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220Package / CaseTO-220-3	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220 Package / Case TO-220-3	Power Dissipation (Max)	278W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220 Package / Case TO-220-3	Rds On (Max) @ Id, Vgs	470 mOhm @ 7A, 10V
Supplier Device Package TO-220 Package / Case TO-220-3	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-220-3	Mounting Type	Through Hole
	Supplier Device Package	TO-220
Report errors?	Package / Case	TO-220-3
		Report errors?

AOT14N50FD 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.

AOT14N50FD Payment Methods



















AOT14N50FD Shipping Methods













If you have any question about AOT14N50FD, please do not hesitate to contact us!

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