



MCMN2012-TP Information

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Part Number MCMN2012-TP

Manufacturer Micro Commercial Co

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 20V 12A DFN202

Package 6-WDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

For Reference Only

Website: https://www.heisener.com

E-mail: salesdept@heisener.com



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Certified Quality

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MCMN2012-TP Specifications

Manufacturer Part Number MCMN2012-TP Manufacturer Micro Commercial Co Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package 6-WDFN Exposed Pad Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 12A (Ta) Drive Voltage (Max Rds On, Min Rds On) 1.2V, 4.5V Vgs(th) (Max) @ Id 1V @ 250µA Gate Charge (Qg) (Max) @ Vgs 32nC @ 5V Input Capacitance (Ciss) (Max) @ Vds 1800pF @ 4V Vgs (Max) ±10V FET Feature - Power Dissipation (Max) - Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackage6-WDFN Exposed PadSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C12A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.2V, 4.5VVgs(th) (Max) @ Id1V @ 250µAGate Charge (Qg) (Max) @ Vgs32nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1800pF @ 4VVgs (Max)±10VFET Feature-Power Dissipation (Max)-Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	Manufacturer Part Number	MCMN2012-TP
Transistors - FETs, MOSFETs - Single Package 6-WDFN Exposed Pad Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 12A (Ta) Drive Voltage (Max Rds On, Min Rds On) 1.2V, 4.5V Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 1800pF @ 4V Vgs (Max) Vgs (Max) ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 6-WDFN Exposed Pad	Manufacturer	Micro Commercial Co
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Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C12A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.2V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs32nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1800pF @ 4VVgs (Max)±10VFET Feature-Power Dissipation (Max)-Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C12A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.2V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs32nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1800pF @ 4VVgs (Max)±10VFET Feature-Power Dissipation (Max)-Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	Package	6-WDFN Exposed Pad
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C12A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.2V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs32nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1800pF @ 4VVgs (Max)±10VFET Feature-Power Dissipation (Max)-Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	Series	-
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C12A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.2V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs32nC @ 5VInput Capacitance (Ciss) (Max) @ Vds1800pF @ 4VVgs (Max)±10VFET Feature-Power Dissipation (Max)-Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On) 1.2V, 4.5V Vgs(th) (Max) @ Id 1V @ 250µA Gate Charge (Qg) (Max) @ Vgs 1800pF @ 4V Vgs (Max) **ET Feature** Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature Operating Temperature Supplier Device Package Package / Case 12A (Ta) 12A	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 1V @ 250μA Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 6-WDFN Exposed Pad	Drain to Source Voltage (Vdss)	20V
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 Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 1V @ 250μA 1800pF @ 4V 1800pF @ 4V -10V -110V -110	Current - Continuous Drain (Id) @ 25°C	12A (Ta)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 1800pF @ 4V Vgs (Max) ±10V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad	Drive Voltage (Max Rds On, Min Rds On)	1.2V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad	Vgs(th) (Max) @ Id	1V @ 250μA
Vgs (Max)±10VFET Feature-Power Dissipation (Max)-Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	Gate Charge (Qg) (Max) @ Vgs	32nC @ 5V
FET Feature - Power Dissipation (Max) - Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad	Input Capacitance (Ciss) (Max) @ Vds	1800pF @ 4V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 11 mOhm @ 9.7A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad	Vgs (Max)	±10V
Rds On (Max) @ Id, Vgs11 mOhm @ 9.7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	FET Feature	-
Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDFN2020-6JPackage / Case6-WDFN Exposed Pad	Power Dissipation (Max)	-
Mounting Type Surface Mount Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad	Rds On (Max) @ Id, Vgs	11 mOhm @ 9.7A, 4.5V
Supplier Device Package DFN2020-6J Package / Case 6-WDFN Exposed Pad	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 6-WDFN Exposed Pad	Mounting Type	Surface Mount
	Supplier Device Package	DFN2020-6J
Report errors?	Package / Case	6-WDFN Exposed Pad
		Report errors?

MCMN2012-TP 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.

MCMN2012-TP Payment Methods



















MCMN2012-TP Shipping Methods













If you have any question about MCMN2012-TP, please do not hesitate to contact us!

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