

# MMDF3N02HDR2G

### MMDF3N02HDR2G Information



For Reference Only

Part Number MMDF3N02HDR2G Manufacturer ON Semiconductor

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET P-CH 20V 3.8A 8-SOIC **Package** 8-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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



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# MMDF3N02HDR2G Specifications

Manufacturer Part Number         MMDF3N02HDR2G           Manufacturer         ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         8-SOIC (0.154", 3.90mm Width)           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         3.8A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         18nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         630pF @ 16V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2W (Ta)           Rds On (Max) @ Id, Vgs         90 mOhm @ 3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-SOIC           Package / Case         8-SOIC (0.154", 3.90mm Width)		
Category  Discrete Semiconductor Products  Transistors - FETs, MOSFETs - Single  8-SOIC (0.154", 3.90mm Width)  Series  - FET Type  P-Channel  Technology  MOSFET (Metal Oxide)  Porain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  June 1.55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Surface Mount  Surface Mount  Surface Moside (Moside)  Package / Case  Position (Mat) (154", 3.90mm Width)	Manufacturer Part Number	MMDF3N02HDR2G
Package         8-SOIC (0.154", 3.90mm Width)           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         3.8A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         18nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         630pF @ 16V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2W (Ta)           Rds On (Max) @ Id, Vgs         90 mOhm @ 3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-SOIC           Package / Case         8-SOIC (0.154", 3.90mm Width)	Manufacturer	ON Semiconductor
Package         8-SOIC (0.154", 3.90mm Width)           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         3.8A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         18nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         630pF @ 16V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2W (Ta)           Rds On (Max) @ Id, Vgs         90 mOhm @ 3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-SOIC           Package / Case         8-SOIC (0.154", 3.90mm Width)	Category	Discrete Semiconductor Products
Series - Channel P-Channel MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 3.8A (Ta) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 18nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ET 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  - Channel MOSFET (Metal Oxide)  20V  -3.8A (Ta) -4.5V, 10V -4.5V,		Transistors - FETs, MOSFETs - Single
FET Type P-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 3.8A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2V @ 250µA Gate Charge (Qg) (Max) @ Vgs 18nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 630pF @ 16V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 2W (Ta) Rds On (Max) @ Id, Vgs 90 mOhm @ 3A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SOIC Package / Case 8-SOIC (0.154", 3.90mm Width)	Package	8-SOIC (0.154", 3.90mm Width)
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C3.8A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18nC @ 10VInput Capacitance (Ciss) (Max) @ Vds630pF @ 16VVgs (Max)±20VFET Feature-Power Dissipation (Max)2W (Ta)Rds On (Max) @ Id, Vgs90 mOhm @ 3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOICPackage / Case8-SOIC (0.154", 3.90mm Width)	Series	-
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C3.8A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18nC @ 10VInput Capacitance (Ciss) (Max) @ Vds630pF @ 16VVgs (Max)±20VFET Feature-Power Dissipation (Max)2W (Ta)Rds On (Max) @ Id, Vgs90 mOhm @ 3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOICPackage / Case8-SOIC (0.154", 3.90mm Width)	FET Type	P-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Cate 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  3.8A (Ta)  4.5V, 10V  4.5V, 10V  2V @ 250µA  630pF @ 16V  420V  FET Feature	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18nC @ 10VInput Capacitance (Ciss) (Max) @ Vds630pF @ 16VVgs (Max)±20VFET Feature-Power Dissipation (Max)2W (Ta)Rds On (Max) @ Id, Vgs90 mOhm @ 3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOICPackage / Case8-SOIC (0.154", 3.90mm Width)	Drain to Source Voltage (Vdss)	20V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  630pF @ 16V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  90 mOhm @ 3A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-SOIC (0.154", 3.90mm Width)	Current - Continuous Drain (Id) @ 25°C	3.8A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  630pF @ 16V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  90 mOhm @ 3A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-SOIC  Package / Case  8-SOIC (0.154", 3.90mm Width)	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  E20V  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  8-SOIC (0.154", 3.90mm Width)	Vgs(th) (Max) @ Id	2V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)2W (Ta)Rds On (Max) @ Id, Vgs90 mOhm @ 3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOICPackage / Case8-SOIC (0.154", 3.90mm Width)	Gate Charge (Qg) (Max) @ Vgs	18nC @ 10V
FET Feature - Power Dissipation (Max) 2W (Ta) Rds On (Max) @ Id, Vgs 90 mOhm @ 3A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SOIC Package / Case 8-SOIC (0.154", 3.90mm Width)	Input Capacitance (Ciss) (Max) @ Vds	630pF @ 16V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  90 mOhm @ 3A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-SOIC  Package / Case  8-SOIC (0.154", 3.90mm Width)	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs90 mOhm @ 3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOICPackage / Case8-SOIC (0.154", 3.90mm Width)	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-SOIC  Package / Case  8-SOIC (0.154", 3.90mm Width)	Power Dissipation (Max)	2W (Ta)
Mounting Type Surface Mount Supplier Device Package 8-SOIC Package / Case 8-SOIC (0.154", 3.90mm Width)	Rds On (Max) @ Id, Vgs	90 mOhm @ 3A, 10V
Supplier Device Package 8-SOIC Package / Case 8-SOIC (0.154", 3.90mm Width)	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 8-SOIC (0.154", 3.90mm Width)	Mounting Type	Surface Mount
	Supplier Device Package	8-SOIC
Report errors?	Package / Case	8-SOIC (0.154", 3.90mm Width)
		Report errors?

#### **MMDF3N02HDR2G 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.

## MMDF3N02HDR2G Payment Methods





















### MMDF3N02HDR2G Shipping Methods













If you have any question about MMDF3N02HDR2G, please do not hesitate to contact us!

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