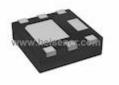




### **DMP2021UFDF-13 Information**



For Reference Only

Part Number DMP2021UFDF-13
Manufacturer Diodes Incorporated

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET P-CH 20V 9A 6UDFN

Package 6-UDFN Exposed Pad

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.









# **DMP2021UFDF-13 Specifications**

Manufacturer Part Number         DMP2021UFDF-13           Manufacturer         Diodes Incorporated           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         6-UDFN Exposed Pad           Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         9A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         1.5V, 4.5V           Vgs(th) (Max) @ Id         1V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         59nC @ 8V           Input Capacitance (Ciss) (Max) @ Vds         2760pF @ 15V           Vgs (Max)         48           FET Feature         -           Power Dissipation (Max)         730mW (Ta)           Rds On (Max) @ Id, Vgs         16 mOhm @ 7A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         U-DFN2020-6 (Type F)           Package / Case         6-UDFN Exposed Pad		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package 6-UDFN Exposed Pad Series - FET Type P-Channel Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C Prive Voltage (Max Rds On, Min Rds On) 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 16 mOhm @ 7A, 4.5V Poyrating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case  6-UDFN Exposed Pad	Manufacturer Part Number	DMP2021UFDF-13
Transistors - FETs, MOSFETs - Single  Package 6-UDFN Exposed Pad  Series - FET Type P-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 20V  Current - Continuous Drain (Id) @ 25°C 9A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 1.5V, 4.5V  Vgs(th) (Max) @ Id 1V @ 250μA  Gate Charge (Qg) (Max) @ Vgs 1nput Capacitance (Ciss) (Max) @ Vds 2760pF @ 15V  Vgs (Max)  ±8V  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 16 mOhm @ 7A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package U-DFN2020-6 (Type F)  Package / Case	Manufacturer	Diodes Incorporated
Package6-UDFN Exposed PadSeries-FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.5V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs59nC @ 8VInput Capacitance (Ciss) (Max) @ Vds2760pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)730mW (Ta)Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN 2020-6 (Type F)Package / Case6-UDFN Exposed Pad	Category	Discrete Semiconductor Products
Series         -           FET Type         P-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         9A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         1.5V, 4.5V           Vgs(th) (Max) @ Id         1V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         59nC @ 8V           Input Capacitance (Ciss) (Max) @ Vds         2760pF @ 15V           Vgs (Max)         ±8V           FET Feature         -           Power Dissipation (Max)         730mW (Ta)           Rds On (Max) @ Id, Vgs         16 mOhm @ 7A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         U-DFN2020-6 (Type F)           Package / Case         6-UDFN Exposed Pad		Transistors - FETs, MOSFETs - Single
FET TypeP-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.5V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs59nC @ 8VInput Capacitance (Ciss) (Max) @ Vds2760pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)730mW (Ta)Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN Exposed Pad	Package	6-UDFN Exposed Pad
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.5V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs59nC @ 8VInput Capacitance (Ciss) (Max) @ Vds2760pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)730mW (Ta)Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN Exposed Pad	Series	-
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C9A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.5V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs59nC @ 8VInput Capacitance (Ciss) (Max) @ Vds2760pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)730mW (Ta)Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN Exposed Pad	FET Type	P-Channel
Current - Continuous Drain (Id) @ 25°C 9A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 1.5V, 4.5V  Vgs(th) (Max) @ Id 1V @ 250µA  Gate Charge (Qg) (Max) @ Vgs 59nC @ 8V  Input Capacitance (Ciss) (Max) @ Vds 2760pF @ 15V  Vgs (Max) ±8V  FET Feature  Power Dissipation (Max) 730mW (Ta)  Rds On (Max) @ Id, Vgs 16 mOhm @ 7A, 4.5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package U-DFN2020-6 (Type F)  Package / Case 6-UDFN Exposed Pad	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)1.5V, 4.5VVgs(th) (Max) @ Id1V @ 250μAGate Charge (Qg) (Max) @ Vgs59nC @ 8VInput Capacitance (Ciss) (Max) @ Vds2760pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)730mW (Ta)Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN 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  U-DFN2020-6 (Type F)  Package / Case  10 Nax) @ Id, Vgs  6-UDFN Exposed Pad	Current - Continuous Drain (Id) @ 25°C	9A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  2760pF @ 15V  Vgs (Max)  ±8V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  16 mOhm @ 7A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  U-DFN2020-6 (Type F)  Package / Case  6-UDFN Exposed Pad	Drive Voltage (Max Rds On, Min Rds On)	1.5V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds  2760pF @ 15V  Vgs (Max)  ET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  16 mOhm @ 7A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  U-DFN2020-6 (Type F)  Package / Case  6-UDFN Exposed Pad	Vgs(th) (Max) @ Id	1V @ 250μA
Vgs (Max)±8VFET Feature-Power Dissipation (Max)730mW (Ta)Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN Exposed Pad	Gate Charge (Qg) (Max) @ Vgs	59nC @ 8V
FET Feature - Table 1 - Table 2 - Table 3 - Ta	Input Capacitance (Ciss) (Max) @ Vds	2760pF @ 15V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  16 mOhm @ 7A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  U-DFN2020-6 (Type F)  Package / Case  6-UDFN Exposed Pad	Vgs (Max)	±8V
Rds On (Max) @ Id, Vgs16 mOhm @ 7A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN Exposed Pad	FET Feature	-
Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package U-DFN2020-6 (Type F)  Package / Case 6-UDFN Exposed Pad	Power Dissipation (Max)	730mW (Ta)
Mounting Type Surface Mount Supplier Device Package U-DFN2020-6 (Type F) Package / Case 6-UDFN Exposed Pad	Rds On (Max) @ Id, Vgs	16 mOhm @ 7A, 4.5V
Supplier Device Package U-DFN2020-6 (Type F) Package / Case 6-UDFN Exposed Pad	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 6-UDFN Exposed Pad	Mounting Type	Surface Mount
	Supplier Device Package	U-DFN2020-6 (Type F)
Report errors?	Package / Case	6-UDFN Exposed Pad
		Report errors?

#### **DMP2021UFDF-13 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.

## **DMP2021UFDF-13 Payment Methods**



















### **DMP2021UFDF-13 Shipping Methods**













If you have any question about DMP2021UFDF-13, please do not hesitate to contact us!

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