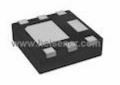




## **DMT3020LFDF-13 Information**



For Reference Only

Part Number DMT3020LFDF-13
Manufacturer Diodes Incorporated

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET NCH 30V 8.4A UDFN2020

Package 6-UDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

## **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.









# **DMT3020LFDF-13 Specifications**

Manufacturer Part Number         DMT3020LFDF-13           Manufacturer         Diodes Incorporated           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         6-UDFN Exposed Pad           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         8.4A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         70nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         393pF @ 15V           Vgs (Max)         ±2V           FET Feature         -           Power Dissipation (Max)         700mW (Ta), 1.8W (Tc)           Rds On (Max) @ Id, Vgs         17 mOhm @ 9A, 10V           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 N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Ourrent - Continuous Drain (Id) @ 25°C 8.4A (Ta) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Toput Capacitance (Ciss) (Max) @ Vds 19put Capacitance (Ciss) (Max) @ Vds 19put Capacitance (Ciss) (Max) @ Vds 19sup Tipe Teature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 17 mOhm @ 9A, 10V Operating Temperature Supplier Device Package U-DFN2020-6 (Type F) Package / Case  6-UDFN Exposed Pad	Manufacturer Part Number	DMT3020LFDF-13
Package         6-UDFN Exposed Pad           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         8.4A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         70nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         393pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         700mW (Ta), 1.8W (Tc)           Rds On (Max) @ Id, Vgs         17 mOhm @ 9A, 10V           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	Manufacturer	Diodes Incorporated
Package6-UDFN Exposed PadSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C8.4A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs70nC @ 10VInput Capacitance (Ciss) (Max) @ Vds393pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)700mW (Ta), 1.8W (Tc)Rds On (Max) @ Id, Vgs17 mOhm @ 9A, 10VOperating 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         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         8.4A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         70nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         393pF @ 15V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         700mW (Ta), 1.8W (Tc)           Rds On (Max) @ Id, Vgs         17 mOhm @ 9A, 10V           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 Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 8.4A (Ta) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.5V @ 250µA Gate Charge (Qg) (Max) @ Vgs 70nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 393pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 700mW (Ta), 1.8W (Tc) Rds On (Max) @ Id, Vgs 17 mOhm @ 9A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package U-DFN2020-6 (Type F) Package / Case	Package	6-UDFN Exposed Pad
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C8.4A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs70nC @ 10VInput Capacitance (Ciss) (Max) @ Vds393pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)700mW (Ta), 1.8W (Tc)Rds On (Max) @ Id, Vgs17 mOhm @ 9A, 10VOperating 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)30VCurrent - Continuous Drain (Id) @ 25°C8.4A (Ta)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs70nC @ 10VInput Capacitance (Ciss) (Max) @ Vds393pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)700mW (Ta), 1.8W (Tc)Rds On (Max) @ Id, Vgs17 mOhm @ 9A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageU-DFN2020-6 (Type F)Package / Case6-UDFN Exposed Pad	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  B. 4A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Cate Charge (Qg) (Max) @ Vgs  Tonc @ 10V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Tome (Max)  Tome (Max) (Max) (Max)  Tome (Max)  Tome (Max) (Max)  Tome (Max)  Tome (Max) (Max)  Tome (Max)  Tome (Max)  Tome (Max)  Current - Continuous Drain (Id) (Max)  Rds On (Max) (Max)  Tome (Max) (Max)  Tome (Max) (Max)  Tome	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.5V @ 250μAGate Charge (Qg) (Max) @ Vgs70nC @ 10VInput Capacitance (Ciss) (Max) @ Vds393pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)700mW (Ta), 1.8W (Tc)Rds On (Max) @ Id, Vgs17 mOhm @ 9A, 10VOperating 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)	30V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  70nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  393pF @ 15V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  700mW (Ta), 1.8W (Tc)  Rds On (Max) @ Id, Vgs  17 mOhm @ 9A, 10V  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	Current - Continuous Drain (Id) @ 25°C	8.4A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  17 mOhm @ 9A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  U-DFN2020-6 (Type F)  Package / Case  70nC @ 10V  393pF @ 15V  -20V  -210V  -21	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  17 mOhm @ 9A, 10V  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	2.5V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)700mW (Ta), 1.8W (Tc)Rds On (Max) @ Id, Vgs17 mOhm @ 9A, 10VOperating 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	70nC @ 10V
FET Feature - Toom W (Ta), 1.8W (Tc)  Rds On (Max) @ Id, Vgs 17 mOhm @ 9A, 10V  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	Input Capacitance (Ciss) (Max) @ Vds	393pF @ 15V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  17 mOhm @ 9A, 10V  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)	±20V
Rds On (Max) @ Id, Vgs17 mOhm @ 9A, 10VOperating 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)	700mW (Ta), 1.8W (Tc)
Mounting Type Surface Mount Supplier Device Package U-DFN2020-6 (Type F) Package / Case 6-UDFN Exposed Pad	Rds On (Max) @ Id, Vgs	17 mOhm @ 9A, 10V
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?

### **DMT3020LFDF-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.

## **DMT3020LFDF-13 Payment Methods**



















## **DMT3020LFDF-13 Shipping Methods**













If you have any question about DMT3020LFDF-13, please do not hesitate to contact us!

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