



## **TC4427VMF Information**



For Reference Only

Part Number TC4427VMF

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DVR 1.5A DUAL HS 8DFN

Package 8-VDFN 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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## **TC4427VMF Specifications**

Manufacturer Part Number  Manufacturer  Microchip Technology  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-VDFN Exposed Pad  Series  - Driven Configuration  Low-Side  Independent  Number of Drivers  2 Gate Type  N-Channel, P-Channel MOSFET  Voltage - Supply  4.5 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Mounting Type  Surface Mount  Package / Case  Supplier Device Package  Nicrochip Technology  Integrated Circuits (ICs)  PMIC - Gate Drivers  8-VDFN Exposed Pad  Nerrors?		
CategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-VDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 19nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case8-VDFN Exposed PadSupplier Device Package8-DFN-S (6x5)	Manufacturer Part Number	TC4427VMF
Package 8-VDFN Exposed Pad  Series - Driven Configuration Low-Side Channel Type Independent Number of Drivers 2 Gate Type N-Channel, P-Channel MOSFET  Voltage - Supply 4.5 V ~ 18 V  Logic Voltage - VIL, VIH 0.8V, 2.4V  Current - Peak Output (Source, Sink) 1.5A, 1.5A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 19ns, 19ns  Operating Temperature -40°C ~ 150°C (TJ)  Mounting Type Surface Mount  Package / Case 8-VDFN Exposed Pad  Supplier Device Package 8-DFN-S (6x5)	Manufacturer	Microchip Technology
Package8-VDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 19nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case8-VDFN Exposed PadSupplier Device Package8-DFN-S (6x5)	Category	Integrated Circuits (ICs)
Series - Configuration Low-Side Channel Type Independent Number of Drivers 2 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 1.5A, 1.5A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 19ns, 19ns Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-DFN-S (6x5)		PMIC - Gate Drivers
Driven Configuration  Channel Type  Independent  Number of Drivers  2  Gate Type  N-Channel, P-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Package	8-VDFN Exposed Pad
Channel Type Number of Drivers 2 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) -Rise / Fall Time (Typ) 19ns, 19ns Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-DFN-S (6x5)	Series	-
Number of Drivers  Gate Type  N-Channel, P-Channel MOSFET  Voltage - Supply  4.5 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Driven Configuration	Low-Side
Gate Type  N-Channel, P-Channel MOSFET  Voltage - Supply  4.5 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)	Channel Type	Independent
Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Number of Drivers	2
Logic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 19nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case8-VDFN Exposed PadSupplier Device Package8-DFN-S (6x5)	Gate Type	N-Channel, P-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-DFN-S (6x5)	Voltage - Supply	4.5 V ~ 18 V
Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-DFN-S (6x5)	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  19ns, 19ns  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-DFN-S (6x5)	Current - Peak Output (Source, Sink)	1.5A, 1.5A
Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-DFN-S (6x5)	Input Type	Non-Inverting
Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-DFN-S (6x5)	High Side Voltage - Max (Bootstrap)	-
Mounting Type Surface Mount Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-DFN-S (6x5)	Rise / Fall Time (Typ)	19ns, 19ns
Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-DFN-S (6x5)	Operating Temperature	-40°C ~ 150°C (TJ)
Supplier Device Package 8-DFN-S (6x5)	Mounting Type	Surface Mount
	Package / Case	8-VDFN Exposed Pad
Report errors?	Supplier Device Package	8-DFN-S (6x5)
		Report errors?

### **TC4427VMF 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.

## **TC4427VMF Payment Methods**





















## **TC4427VMF Shipping Methods**













If you have any question about TC4427VMF, please do not hesitate to contact us!

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