



## **MCH3477-TL-W Information**



For Reference Only

Part Number MCH3477-TL-W Manufacturer ON Semiconductor

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 20V 4.5A MCPH3

Package 3-SMD, Flat Leads

For the pricing/inventory/lead time, please contact

us

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



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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.









# MCH3477-TL-W Specifications

Manufacturer Part NumberMCH3477-TL-WManufacturerON SemiconductorCategoryDiscrete Semiconductor Products Transistors - FETs, MOSFETs - SinglePackage3-SMD, Flat LeadsSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C4.5A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.3V @ ImAGate Charge (Qg) (Max) @ Vgs5.1nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds410pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)1W (Ta)Rds On (Max) @ Id, Vgs38 mOhm @ 2A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageSC-70FL/MCPH3Package / Case3-SMD, Flat LeadsReport errors?		
Category  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  3-SMD, Flat Leads  Series  - FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C 4.5A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 1.8V, 4.5V  Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 1.3V @ 1mA  Gate Charge (Qg) (Max) @ Vds 410pF @ 10V  Vgs (Max)  ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 2A, 4.5V  Operating Temperature Mounting Type Surface Mount Supplier Device Package Package / Case  Dissipation (Mas)  Surface Mount Supplier Device Package Package / Case	Manufacturer Part Number	MCH3477-TL-W
Package         3-SMD, Flat Leads           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         4.5A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         1.8V, 4.5V           Vgs(th) (Max) @ Id         1.3V @ ImA           Gate Charge (Qg) (Max) @ Vgs         5.1nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         410pF @ 10V           Vgs (Max)         ±12V           FET Feature         -           Power Dissipation (Max)         1W (Ta)           Rds On (Max) @ Id, Vgs         38 mOhm @ 2A, 4.5V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         SC-70FL/MCPH3           Package / Case         3-SMD, Flat Leads	Manufacturer	ON Semiconductor
Package3-SMD, Flat LeadsSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C4.5A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.3V @ 1mAGate Charge (Qg) (Max) @ Vgs5.1nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds410pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)1W (Ta)Rds On (Max) @ Id, Vgs38 mOhm @ 2A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageSC-70FL/MCPH3Package / Case3-SMD, Flat Leads	Category	Discrete Semiconductor Products
Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C4.5A (Ta)Drive Voltage (Max Rds On, Min Rds On)1.8V, 4.5VVgs(th) (Max) @ Id1.3V @ 1mAGate Charge (Qg) (Max) @ Vgs5.1nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds410pF @ 10VVgs (Max)±12VFET Feature-Power Dissipation (Max)1W (Ta)Rds On (Max) @ Id, Vgs38 mOhm @ 2A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageSC-70FL/MCPH3Package / Case3-SMD, Flat Leads		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) 1.8V, 4.5V Vgs(th) (Max) @ Id 1.3V @ 1mA Gate Charge (Qg) (Max) @ Vgs 5.1nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 410pF @ 10V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 1W (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 2A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package SC-70FL/MCPH3 Package / Case 3.5MD, Flat Leads	Package	3-SMD, Flat Leads
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 4.5A (Ta) Drive Voltage (Max Rds On, Min Rds On) 1.8V, 4.5V Vgs(th) (Max) @ Id 1.3V @ 1mA Gate Charge (Qg) (Max) @ Vgs 5.1nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 410pF @ 10V Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 38 mOhm @ 2A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 3-SMD, Flat Leads	Series	-
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  4.5A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  1.8V, 4.5V  Vgs(th) (Max) @ Id  1.3V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  5.1nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  410pF @ 10V  Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  38 mOhm @ 2A, 4.5V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  SC-70FL/MCPH3  Package / Case  3-SMD, Flat Leads	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  1.8V, 4.5V  Vgs(th) (Max) @ Id  1.3V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  410pF @ 10V  Vgs (Max)  ±12V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  38 mOhm @ 2A, 4.5V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  3-SMD, Flat Leads	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  1.3V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  5.1nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  1.8V, 4.5V  1.8V, 4.5V  1.8V, 4.5V  410pF @ 10V	Drain to Source Voltage (Vdss)	20V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 5.1nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 410pF @ 10V  Vgs (Max)  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature 150°C (TJ)  Mounting Type Surface Mount Supplier Device Package Package / Case 3-SMD, Flat Leads	Current - Continuous Drain (Id) @ 25°C	4.5A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  410pF @ 10V  Vgs (Max)  ±12V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  38 mOhm @ 2A, 4.5V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  5.1nC @ 4.5V  410pF @ 10V  410pF @ 10V  5.1nC @ 4.5V  5.1nC @ 4.	Drive Voltage (Max Rds On, Min Rds On)	1.8V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  410pF @ 10V  410pF @ 10	Vgs(th) (Max) @ Id	1.3V @ 1mA
Vgs (Max) ±12V  FET Feature -  Power Dissipation (Max) 1W (Ta)  Rds On (Max) @ Id, Vgs 38 mOhm @ 2A, 4.5V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package SC-70FL/MCPH3  Package / Case 3-SMD, Flat Leads	Gate Charge (Qg) (Max) @ Vgs	5.1nC @ 4.5V
FET Feature - Power Dissipation (Max) 1W (Ta) Rds On (Max) @ Id, Vgs 38 mOhm @ 2A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package SC-70FL/MCPH3 Package / Case 3-SMD, Flat Leads	Input Capacitance (Ciss) (Max) @ Vds	410pF @ 10V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  3-SMD, Flat Leads	Vgs (Max)	±12V
Rds On (Max) @ Id, Vgs38 mOhm @ 2A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageSC-70FL/MCPH3Package / Case3-SMD, Flat Leads	FET Feature	-
Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package SC-70FL/MCPH3  Package / Case 3-SMD, Flat Leads	Power Dissipation (Max)	1W (Ta)
Mounting Type Surface Mount Supplier Device Package SC-70FL/MCPH3 Package / Case 3-SMD, Flat Leads	Rds On (Max) @ Id, Vgs	38 mOhm @ 2A, 4.5V
Supplier Device Package SC-70FL/MCPH3 Package / Case 3-SMD, Flat Leads	Operating Temperature	150°C (TJ)
Package / Case 3-SMD, Flat Leads	Mounting Type	Surface Mount
	Supplier Device Package	SC-70FL/MCPH3
Report errors?	Package / Case	3-SMD, Flat Leads
		Report errors?

#### MCH3477-TL-W 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.

## MCH3477-TL-W Payment Methods



















# MCH3477-TL-W Shipping Methods













If you have any question about MCH3477-TL-W, please do not hesitate to contact us!

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