



### FCH47N60F\_F085 Information



For Reference Only

Part Number FCH47N60F\_F085

ManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 600V 47A TO-247

Package TO-247-3

For the pricing/inventory/lead time, please contact

us

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



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## FCH47N60F\_F085 Specifications

Manufacturer Part Number         FCH47N60F_F085           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-247-3           Series         Automotive, AEC-Q101, SuperFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         47A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         250nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         8000pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         417W (Tc)           Rds On (Max) @ Id, Vgs         75 mOhm @ 47A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-247           Package / Case         TO-247-3           Report errors?		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-247-3 Series Automotive, AEC-Q101, SuperFET? FET Type N-Channel Technology MOSFET (Metal Oxide) Parin to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 47A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Sty @ 250µA Gate Charge (Qg) (Max) @ Vgs 10put Capacitance (Ciss) (Max) @ Vds 8000pF @ 25V Vgs (Max) FET Feature -Power Dissipation (Max) Rds On (Max) @ Id, Vgs 75 mOhm @ 47A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package TO-247 Package / Case  TO-247-3	Manufacturer Part Number	FCH47N60F_F085
Package         TO-247-3           Series         Automotive, AEC-Q101, SuperFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         600V           Current - Continuous Drain (Id) @ 25°C         47A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         250nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         8000pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         417W (Tc)           Rds On (Max) @ Id, Vgs         75 mOhm @ 47A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-247           Package / Case         TO-247-3	Manufacturer	Fairchild/ON Semiconductor
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Series Automotive, AEC-Q101, SuperFET?  FET Type N-Channel Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 600V  Current - Continuous Drain (Id) @ 25°C 47A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 5V @ 250μA  Gate Charge (Qg) (Max) @ Vgs 250μC 910V  Input Capacitance (Ciss) (Max) @ Vds 8000pF @ 25V  Vgs (Max) ±30V  FET Feature - Power Dissipation (Max) 417W (Tc)  Rds On (Max) @ Id, Vgs 75 mOhm @ 47A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-247  Package / Case		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C47A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs250nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)417W (Tc)Rds On (Max) @ Id, Vgs75 mOhm @ 47A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-247Package / CaseTO-247-3	Package	TO-247-3
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)600VCurrent - Continuous Drain (Id) @ 25°C47A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 250μAGate Charge (Qg) (Max) @ Vgs250nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)417W (Tc)Rds On (Max) @ Id, Vgs75 mOhm @ 47A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-247Package / CaseTO-247-3	Series	Automotive, AEC-Q101, SuperFET?
Drain to Source Voltage (Vdss)600 VCurrent - Continuous Drain (Id) @ 25°C47A (Tc)Drive Voltage (Max Rds On, Min Rds On)10 VVgs(th) (Max) @ Id5 V @ 250μAGate Charge (Qg) (Max) @ Vgs250nC @ 10 VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25 VVgs (Max)±30 VFET Feature-Power Dissipation (Max)417W (Tc)Rds On (Max) @ Id, Vgs75 mOhm @ 47A, 10 VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-247Package / CaseTO-247-3	FET Type	N-Channel
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Vgs (Max) ±30V  FET Feature -  Power Dissipation (Max) 417W (Tc)  Rds On (Max) @ Id, Vgs 75 mOhm @ 47A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-247  Package / Case TO-247-3	Gate Charge (Qg) (Max) @ Vgs	250nC @ 10V
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Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-247  Package / Case TO-247-3	Power Dissipation (Max)	417W (Tc)
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Supplier Device Package TO-247 Package / Case TO-247-3	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-247-3	Mounting Type	Through Hole
	Supplier Device Package	TO-247
Report errors?	Package / Case	TO-247-3
		Report errors?

## FCH47N60F\_F085 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.

### FCH47N60F\_F085 Payment Methods





















## FCH47N60F\_F085 Shipping Methods













If you have any question about FCH47N60F\_F085, please do not hesitate to contact us!

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