

STW46NF30 Information



For Reference Only

Part Number STW46NF30

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 300V 42A TO247

Package TO-247-3

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.









STW46NF30 Specifications

Manufacturer Part Number STW46NF30 Manufacturer STMicroelectronics Category Discrete Semiconductor Products		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-247-3 Series STripFET? II FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 300V Current - Continuous Drain (Id) @ 25°C 42A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 90nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 3200pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 300W (Tc) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247- Package / Case TO-247-3	Manufacturer Part Number	STW46NF30
Package TO-247-3 Series STripFET? II FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 300V Current - Continuous Drain (Id) @ 25°C 42A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 90nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 3200pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 300W (Tc) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Manufacturer	STMicroelectronics
Package TO-247-3 Series STripFET? II FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 300V Current - Continuous Drain (Id) @ 25°C 42A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 90nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 3200pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 300W (Tc) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Category	Discrete Semiconductor Products
Series STripFET? II FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 300V Current - Continuous Drain (Id) @ 25°C 42A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 90nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 3200pF @ 25V Vgs (Max) ±20V FET Feature Power Dissipation (Max) 300W (Tc) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package 70-247 Package / Case 170-247-3		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) 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 FOwer Dissipation (Max) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature Mounting Type Supplier Device Package TO-247 Package / Case	Package	TO-247-3
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 42A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package TO-247 Package / Case MOSFET (Metal Oxide) 300V 42A (Tc) 42A (Series	STripFET? II
Drain to Source Voltage (Vdss)300 VCurrent - Continuous Drain (Id) @ 25°C42A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs90nC @ 10VInput Capacitance (Ciss) (Max) @ Vds3200pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)300W (Tc)Rds On (Max) @ Id, Vgs75 mOhm @ 17A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-247Package / CaseTO-247-3	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C Drive 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 75 mOhm @ 17A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package Package / Case 42A (Tc) 4V @ 250μA 300V (2 10V 3200pF @ 25V 42OV FET Feature - Power Dissipation (Max) 75 mOhm @ 17A, 10V Through Hole	Technology	MOSFET (Metal Oxide)
Drive 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 75 mOhm @ 17A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package Package / Case 10V 4V @ 250μA 4V @ 250μA 3200pF @ 25V 220V 520V 520V 521V 520V 75 mOhm @ 17A, 10V	Drain to Source Voltage (Vdss)	300V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) +20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Current - Continuous Drain (Id) @ 25°C	42A (Tc)
Gate Charge (Qg) (Max) @ Vgs 90nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 3200pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 300W (Tc) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)300W (Tc)Rds On (Max) @ Id, Vgs75 mOhm @ 17A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-247Package / CaseTO-247-3	Gate Charge (Qg) (Max) @ Vgs	90nC @ 10V
FET Feature - Graduate	Input Capacitance (Ciss) (Max) @ Vds	3200pF @ 25V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 75 mOhm @ 17A, 10V Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs75 mOhm @ 17A, 10VOperating Temperature175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-247Package / CaseTO-247-3	FET Feature	-
Operating Temperature 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Power Dissipation (Max)	300W (Tc)
Mounting Type Through Hole Supplier Device Package TO-247 Package / Case TO-247-3	Rds On (Max) @ Id, Vgs	75 mOhm @ 17A, 10V
Supplier Device Package TO-247 Package / Case TO-247-3	Operating Temperature	175°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?

STW46NF30 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.

STW46NF30 Payment Methods



















STW46NF30 Shipping Methods













If you have any question about STW46NF30, please do not hesitate to contact us!

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