



STS6NF20V Information



For Reference Only

Part Number STS6NF20V

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

DescriptionMOSFET N-CH 20V 6A 8SOIC**Package**8-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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



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STS6NF20V Specifications

Manufacturer Part Number STS6NF20V Manufacturer STMicroelectronics Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package 8-SOIC (0.154", 3.90mm Width) Series STripFET? II FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 6A (Tc) Drive Voltage (Max Rds On, Min Rds On) 1.95V, 4.5V Vgs(th) (Max) @ Id 600mV @ 250µA Gate Charge (Qg) (Max) @ Vgs 11.5nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 460pF @ 15V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 2.5W (Tc) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)		
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Series STripFET? II FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 6A (Tc) Drive Voltage (Max Rds On, Min Rds On) 1.95V, 4.5V Vgs(th) (Max) @ Id 600mV @ 250µA Gate Charge (Qg) (Max) @ Vgs 11.5nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 460pF @ 15V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 2.5W (Tc) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)1.95V, 4.5VVgs(th) (Max) @ Id600mV @ 250μAGate Charge (Qg) (Max) @ Vgs11.5nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds460pF @ 15VVgs (Max)±12VFET Feature-Power Dissipation (Max)2.5W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 3A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	Package	8-SOIC (0.154", 3.90mm Width)
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 6A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 600mV @ 250μA Gate Charge (Qg) (Max) @ Vgs 11.5nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 8-SOIC (0.154", 3.90mm Width)	Series	STripFET? II
Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)1.95V, 4.5VVgs(th) (Max) @ Id600mV @ 250μAGate Charge (Qg) (Max) @ Vgs11.5nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds460pF @ 15VVgs (Max)±12VFET Feature-Power Dissipation (Max)2.5W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 3A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On) 1.95V, 4.5V Vgs(th) (Max) @ Id 600mV @ 250μA Gate Charge (Qg) (Max) @ Vgs 11.5nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 460pF @ 15V Vgs (Max) ±12V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 8-SOIC (0.154", 3.90mm Width)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)1.95 V, 4.5 VVgs(th) (Max) @ Id600mV @ 250μAGate Charge (Qg) (Max) @ Vgs11.5nC @ 4.5 VInput Capacitance (Ciss) (Max) @ Vds460pF @ 15 VVgs (Max)±12 VFET Feature-Power Dissipation (Max)2.5W (Tc)Rds On (Max) @ Id, Vgs40 mOhm @ 3A, 4.5 VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	Drain to Source Voltage (Vdss)	20V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 11.5nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 460pF @ 15V 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 8-SOIC (0.154", 3.90mm Width)	Current - Continuous Drain (Id) @ 25°C	6A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 460pF @ 15V Vgs (Max) ±12V FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case 8-SOIC (0.154", 3.90mm Width)	Drive Voltage (Max Rds On, Min Rds On)	1.95V, 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 8-SOIC (0.154", 3.90mm Width)	Vgs(th) (Max) @ Id	600mV @ 250μA
Vgs (Max) ±12V FET Feature - Power Dissipation (Max) 2.5W (Tc) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Gate Charge (Qg) (Max) @ Vgs	11.5nC @ 4.5V
FET Feature - Power Dissipation (Max) 2.5W (Tc) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Input Capacitance (Ciss) (Max) @ Vds	460pF @ 15V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 40 mOhm @ 3A, 4.5V Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Vgs (Max)	±12V
Rds On (Max) @ Id, Vgs40 mOhm @ 3A, 4.5VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	FET Feature	-
Operating Temperature 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Power Dissipation (Max)	2.5W (Tc)
Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Rds On (Max) @ Id, Vgs	40 mOhm @ 3A, 4.5V
Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Operating Temperature	150°C (TJ)
Package / Case 8-SOIC (0.154", 3.90mm Width)	Mounting Type	Surface Mount
	Supplier Device Package	8-SO
Report errors?	Package / Case	8-SOIC (0.154", 3.90mm Width)
		Report errors?

STS6NF20V 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.

STS6NF20V Payment Methods





















STS6NF20V Shipping Methods













If you have any question about STS6NF20V, please do not hesitate to contact us!

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