



STP7N52DK3 Information



For Reference Only

Part Number STP7N52DK3

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 525V 6A TO-220

Package TO-220-3

For the pricing/inventory/lead time, please contact

us

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



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STP7N52DK3 Specifications

Manufacturer Part Number STP7N52DK3 Manufacturer STMicroelectronics Category Discrete Semiconductor Products		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-220-3 Series SuperFREDmesh3? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 525V Current - Continuous Drain (Id) @ 25°C 6A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.5V @ 50μA Gate Charge (Qg) (Max) @ Vgs 33nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 870pF @ 50V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 90W (Tc) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Manufacturer Part Number	STP7N52DK3
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PackageTO-220-3SeriesSuperFREDmesh3?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)525VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 50μAGate Charge (Qg) (Max) @ Vgs33nC @ 10VInput Capacitance (Ciss) (Max) @ Vds870pF @ 50VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs1.15 Ohm @ 3A, 10VOperating Temperature150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	Category	Discrete Semiconductor Products
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FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)525VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 50μAGate Charge (Qg) (Max) @ Vgs33nC @ 10VInput Capacitance (Ciss) (Max) @ Vds870pF @ 50VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs1.15 Ohm @ 3A, 10VOperating Temperature150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	Package	TO-220-3
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 4.5V @ 50μA Gate Charge (Qg) (Max) @ Vgs 13nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package Package / Case TO-220AB Package / Case	Series	SuperFREDmesh3?
Drain to Source Voltage (Vdss)525VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 50μAGate Charge (Qg) (Max) @ Vgs33nC @ 10VInput Capacitance (Ciss) (Max) @ Vds870pF @ 50VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs1.15 Ohm @ 3A, 10VOperating Temperature150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	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 1.15 Ohm @ 3A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package Package / Case 6A (Tc) 6A (Tc)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 50μAGate Charge (Qg) (Max) @ Vgs33nC @ 10VInput Capacitance (Ciss) (Max) @ Vds870pF @ 50VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs1.15 Ohm @ 3A, 10VOperating Temperature150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	Drain to Source Voltage (Vdss)	525V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 870pF @ 50V Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package Package / Case TO-220AB	Current - Continuous Drain (Id) @ 25°C	6A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 870pF @ 50V Vgs (Max) ±30V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds 870pF @ 50V Vgs (Max) ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Vgs(th) (Max) @ Id	4.5V @ 50μA
Vgs (Max) ±30V FET Feature - Power Dissipation (Max) 90W (Tc) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Gate Charge (Qg) (Max) @ Vgs	33nC @ 10V
FET Feature - Power Dissipation (Max) 90W (Tc) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Input Capacitance (Ciss) (Max) @ Vds	870pF @ 50V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs 1.15 Ohm @ 3A, 10V Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	FET Feature	-
Operating Temperature 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Power Dissipation (Max)	90W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Rds On (Max) @ Id, Vgs	1.15 Ohm @ 3A, 10V
Supplier Device Package TO-220AB Package / Case TO-220-3	Operating Temperature	150°C (TJ)
Package / Case TO-220-3	Mounting Type	Through Hole
	Supplier Device Package	TO-220AB
Report errors?	Package / Case	TO-220-3
		Report errors?

STP7N52DK3 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.

STP7N52DK3 Payment Methods



















STP7N52DK3 Shipping Methods













If you have any question about STP7N52DK3, please do not hesitate to contact us!

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