



## STB7N52K3 Information



For Reference Only

Part Number STB7N52K3

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 525V 6.2A D2PAK

Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB

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.









## STB7N52K3 Specifications

Manufacturer Part Number         STB7N52K3           Manufacturer         STMicroelectronics           Category         Discrete Semiconductor Products           Fackage         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB           Series         SuperMESH3?           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         34nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         377pF @ 100V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         90W (Tc)           Rds On (Max) @ Id, Vgs         980 mOhm @ 3.1A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D2PAK           Package / Case         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB           Report errors?		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-263-3, D2Pak (2 Leads + Tab), TO-263ABSeriesSuperMESH3?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) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Manufacturer Part Number	STB7N52K3
Fackage         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB           Series         SuperMESH3?           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         34nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         737pF @ 100V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         90W (Tc)           Rds On (Max) @ Id, Vgs         980 mOhm @ 3.1A, 10V           Operating Temperature         150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D2PAK           Package / Case         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Manufacturer	STMicroelectronics
PackageTO-263-3, D2Pak (2 Leads + Tab), TO-263ABSeriesSuperMESH3?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) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Category	Discrete Semiconductor Products
SeriesSuperMESH3?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) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)525 VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 50μAGate Charge (Qg) (Max) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Package	TO-263-3, D2Pak (2 Leads + Tab), TO-263AB
TechnologyMOSFET (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) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Series	SuperMESH3?
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) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  10V  Vgs(th) (Max) @ Id  4.5V @ 50μA  Gate Charge (Qg) (Max) @ Vgs  34nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  737pF @ 100V  Vgs (Max)  ±30V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  980 mOhm @ 3.1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 50μAGate Charge (Qg) (Max) @ Vgs34nC @ 10VInput Capacitance (Ciss) (Max) @ Vds737pF @ 100VVgs (Max)±30VFET Feature-Power Dissipation (Max)90W (Tc)Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Drain to Source Voltage (Vdss)	525V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  737pF @ 100V  Vgs (Max)  ±30V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  980 mOhm @ 3.1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	6A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  737pF @ 100V  Vgs (Max)  ±30V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  980 mOhm @ 3.1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  980 mOhm @ 3.1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Vgs(th) (Max) @ Id	4.5V @ 50μA
Vgs (Max) ±30V  FET Feature -  Power Dissipation (Max) 90W (Tc)  Rds On (Max) @ Id, Vgs 980 mOhm @ 3.1A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D2PAK  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Gate Charge (Qg) (Max) @ Vgs	34nC @ 10V
FET Feature -  Power Dissipation (Max) 90W (Tc)  Rds On (Max) @ Id, Vgs 980 mOhm @ 3.1A, 10V  Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D2PAK  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Input Capacitance (Ciss) (Max) @ Vds	737pF @ 100V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  980 mOhm @ 3.1A, 10V  Operating Temperature  150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs980 mOhm @ 3.1A, 10VOperating Temperature150°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAKPackage / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	FET Feature	-
Operating Temperature 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D2PAK  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Power Dissipation (Max)	90W (Tc)
Mounting Type Surface Mount Supplier Device Package D2PAK Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Rds On (Max) @ Id, Vgs	980 mOhm @ 3.1A, 10V
Supplier Device Package  D2PAK  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Operating Temperature	150°C (TJ)
Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Mounting Type	Surface Mount
	Supplier Device Package	D2PAK
Report errors?	Package / Case	TO-263-3, D2Pak (2 Leads + Tab), TO-263AB
		Report errors?

#### STB7N52K3 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.

# STB7N52K3 Payment Methods



















## STB7N52K3 Shipping Methods













If you have any question about STB7N52K3, please do not hesitate to contact us!

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