



### **HUFA75823D3ST Information**



For Reference Only

Part Number HUFA75823D3ST

Manufacturer Fairchild/ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 150V 14A TO-252AA

**Description** MOSFET N-CH 150V 14A TO-252AA **Package** TO-252-3, DPak (2 Leads + Tab), SC-63

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.









## **HUFA75823D3ST Specifications**

Manufacturer Part Number         HUFA75823D3ST           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         150V           Current - Continuous Drain (Id) @ 25°C         14A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         54nC @ 20V           Input Capacitance (Ciss) (Max) @ Vds         800pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         85W (Tc)           Rds On (Max) @ Id, Vgs         150 mOhm @ 14A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252AA           Package / Case         TO-252A, DPak (2 Leads + Tab), SC-63		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesUltraFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250µAGate Charge (Qg) (Max) @ Vgs54nC @ 20VInput Capacitance (Ciss) (Max) @ Vds800pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	HUFA75823D3ST
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         150V           Current - Continuous Drain (Id) @ 25°C         14A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         54nC @ 20V           Input Capacitance (Ciss) (Max) @ Vds         800pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         85W (Tc)           Rds On (Max) @ Id, Vgs         150 mOhm @ 14A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252AA           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Fairchild/ON Semiconductor
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         UltraFET?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         150V           Current - Continuous Drain (Id) @ 25°C         14A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         54nC @ 20V           Input Capacitance (Ciss) (Max) @ Vds         800pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         85W (Tc)           Rds On (Max) @ Id, Vgs         150 mOhm @ 14A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252AA           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
SeriesUltraFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs54nC @ 20VInput Capacitance (Ciss) (Max) @ Vds800pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs54nC @ 20VInput Capacitance (Ciss) (Max) @ Vds800pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs54nC @ 20VInput Capacitance (Ciss) (Max) @ Vds800pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	UltraFET?
Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C14A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs54nC @ 20VInput Capacitance (Ciss) (Max) @ Vds800pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	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  150 mOhm @ 14A, 10V  Operating Temperature  Surface Mount  Supplier Device Package  Package / Case  14A (Tc)  150 µ  4V @ 250µA  800pF @ 25V  Ygs (Max)  150 w Clease  150 w Clease  To-252AA  To-252AA  To-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs54nC @ 20VInput Capacitance (Ciss) (Max) @ Vds800pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	150V
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  150 mOhm @ 14A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252AA  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	14A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  800pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  150 mOhm @ 14A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252AA  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	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  150 mOhm @ 14A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252-AA  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max) $\pm 20$ VFET Feature-Power Dissipation (Max)85W (Tc)Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature $-55^{\circ}$ C ~ $175^{\circ}$ C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	54nC @ 20V
FET Feature -  Power Dissipation (Max) 85W (Tc)  Rds On (Max) @ Id, Vgs 150 mOhm @ 14A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252AA  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	800pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  150 mOhm @ 14A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252AA  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs150 mOhm @ 14A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252AAPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  TO-252AA  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	85W (Tc)
Mounting Type Surface Mount  TO-252AA Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	150 mOhm @ 14A, 10V
Supplier Device Package TO-252AA Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	TO-252AA
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### **HUFA75823D3ST 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.

# **HUFA75823D3ST Payment Methods**



















## **HUFA75823D3ST Shipping Methods**













If you have any question about HUFA75823D3ST, please do not hesitate to contact us!

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