

# HUF76609D3S

### **HUF76609D3S Information**

www.helsener.com	1 41 0 1 (4110)01	HUF76609D3S Fairchild/ON Semiconductor Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single MOSFET N-CH 100V 10A DPAK TO-252-3, DPak (2 Leads + Tab), SC-63 For the pricing/inventory/lead time, please contact	
For Reference Only		us Website: https://www.heisener.com E-mail: salesdept@heisener.com	Request a Quote

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# **HUF76609D3S Specifications**

Manufacturer Part NumberHUF76609D3SManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor ProductsCategoryTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesUltraFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250µAInput Capacitance (Ciss) (Max) @ Vds425pF @ 25VVgs (Max)±16VFET Feature-Power Dissipation (Max)49W (Tc)Rds On (Max) @ Id, Vgs160 mOhm @ 10A, 10VOperating Temperature-55° c ~ 175°C (TJ)Mounting TypeSurface Mount			
CategoryDiscrete Semiconductor Products Transistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesUltraFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)45V, 10VVgs(th) (Max) @ Id3V @ 250µAGate Charge (Qg) (Max) @ Vds16nC @ 10VFET Feature-Power Dissipation (Max)49W (Tc)Rds On (Max) @ Id, Vgs160 mohm @ 10A, 10VRds On (Max) @ Id, Vgs55°C ~ 175°C (TJ)	Manufacturer Part Number	HUF76609D3S	
Transistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63SeriesUltraFET?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id3V @ 250µAGate Charge (Qg) (Max) @ Vds16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds±16VVgs (Max)±16VFET Feature-Power Dissipation (Max)49W (Tc)Rds On (Max) @ Id, Vgs160 mOhm @ 10A, 10VOperating Temperature-55°C ~ 175°C (TJ)	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)   100V     Current - Continuous Drain (Id) @ 25°C   10A (Tc)     Drive Voltage (Max Rds On, Min Rds On)   4.5V, 10V     Vgs(th) (Max) @ Id   3V @ 250µA     Gate Charge (Qg) (Max) @ Vds   16nC @ 10V     Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   49W (Tc)     Rds On (Max) @ Id, Vgs   160 mOhnm @ 10A, 10V     Operating Temperature   -55°C ~ 175°C (TJ)	Category	Discrete Semiconductor Products	
Series   UltraFET?     FET Type   N-Channel     Technology   MOSFET (Metal Oxide)     Drain to Source Voltage (Vdss)   100V     Current - Continuous Drain (Id) @ 25°C   10A (Tc)     Drive Voltage (Max Rds On, Min Rds On)   4.5V, 10V     Vgs(th) (Max) @ Id   3V @ 250µA     Gate Charge (Qg) (Max) @ Vgs   16nC @ 10V     Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   160 mOhm @ 10A, 10V     Rds On (Max) @ Id, Vgs   160 mOhm @ 10A, 10V		Transistors - FETs, MOSFETs - Single	
FET Type   N-Channel     Technology   MOSFET (Metal Oxide)     Drain to Source Voltage (Vdss)   100V     Current - Continuous Drain (Id) @ 25°C   10A (Tc)     Drive Voltage (Max Rds On, Min Rds On)   4.5V, 10V     Vgs(th) (Max) @ Id   3V @ 250µA     Gate Charge (Qg) (Max) @ Vgs   16nC @ 10V     Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   49W (Tc)     Rds On (Max) @ Id, Vgs   160 mOhm @ 10A, 10V     Operating Temperature   -55°C ~ 175°C (TJ)	Package	TO-252-3, DPak (2 Leads + Tab), SC-63	
Technology   MOSFET (Metal Oxide)     Drain to Source Voltage (Vdss)   100V     Current - Continuous Drain (Id) @ 25°C   10A (Tc)     Drive Voltage (Max Rds On, Min Rds On)   4.5V, 10V     Vgs(th) (Max) @ Id   3V @ 250µA     Gate Charge (Qg) (Max) @ Vgs   16nC @ 10V     Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   49W (Tc)     Rds On (Max) @ Id, Vgs   160 mOhm @ 10A, 10V     Operating Temperature   -55°C ~ 175°C (TJ)	Series	UltraFET?	
Drain to Source Voltage (Vdss)   100V     Current - Continuous Drain (Id) @ 25°C   10A (Tc)     Drive Voltage (Max Rds On, Min Rds On)   4.5V, 10V     Vgs(th) (Max) @ Id   3V @ 250µA     Gate Charge (Qg) (Max) @ Vgs   16nC @ 10V     Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   49W (Tc)     Rds On (Max) @ Id, Vgs   160 mOhm @ 10A, 10V     Operating Temperature   -55°C ~ 175°C (TJ)	FET Type	N-Channel	
Current - Continuous Drain (Id) @ 25°С   IOA (Tc)     Drive Voltage (Max Rds On, Min Rds On)   4.5V, 10V     Vgs(th) (Max) @ Id   3V @ 250µA     Gate Charge (Qg) (Max) @ Vgs   16nC @ 10V     Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   49W (Tc)     Rds On (Max) @ Id, Vgs   160 mOhm @ 10A, 10V     Operating Temperature   -55°C ~ 175°C (TJ)	Technology	MOSFET (Metal Oxide)	
Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V   Vgs(th) (Max) @ Id 3V @ 250μA   Gate Charge (Qg) (Max) @ Vgs 16nC @ 10V   Input Capacitance (Ciss) (Max) @ Vds 425pF @ 25V   Vgs (Max) ±16V   FET Feature -   Power Dissipation (Max) 9W (Tc)   Rds On (Max) @ Id, Vgs 160 mOhm @ 10A, 10V   Operating Temperature -55°C ~ 175°C (TJ)	Drain to Source Voltage (Vdss)	100V	
Vgs(th) (Max) @ Id3V @ 250μAGate Charge (Qg) (Max) @ Vgs16nC @ 10VInput Capacitance (Ciss) (Max) @ Vds425pF @ 25VVgs (Max)±16VFET Feature-Power Dissipation (Max)49W (Tc)Rds On (Max) @ Id, Vgs160 mOhm @ 10A, 10VOperating Temperature-55°C ~ 175°C (TJ)	Current - Continuous Drain (Id) @ 25°C	10A (Tc)	
Gate Charge (Qg) (Max) @ Vgs 16nC @ 10V   Input Capacitance (Ciss) (Max) @ Vds 425pF @ 25V   Vgs (Max) ±16V   FET Feature -   Power Dissipation (Max) 49W (Tc)   Rds On (Max) @ Id, Vgs 160 mOhm @ 10A, 10V   Operating Temperature -55°C ~ 175°C (TJ)	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	
Input Capacitance (Ciss) (Max) @ Vds   425pF @ 25V     Vgs (Max)   ±16V     FET Feature   -     Power Dissipation (Max)   49W (Tc)     Rds On (Max) @ Id, Vgs   160 mOhm @ 10A, 10V     Operating Temperature   -55°C ~ 175°C (TJ)	Vgs(th) (Max) @ Id	3V @ 250µA	
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Rds On (Max) @ Id, Vgs 160 mOhm @ 10A, 10V   Operating Temperature -55°C ~ 175°C (TJ)	FET Feature	-	
Operating Temperature $-55^{\circ}\text{C} \sim 175^{\circ}\text{C} \text{(TJ)}$	Power Dissipation (Max)	49W (Tc)	
	Rds On (Max) @ Id, Vgs	160 mOhm @ 10A, 10V	
Mounting Type Surface Mount	Operating Temperature	-55°C ~ 175°C (TJ)	
	Mounting Type	Surface Mount	
Supplier Device Package D-Pak	Supplier Device Package	D-Pak	
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	
Report errors?		Report errors?	

#### **HUF76609D3S 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 SUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### **HUF76609D3S Payment Methods**



## HUF76609D3S Shipping Methods



If you have any question about HUF76609D3S, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com