

#### NDS8425 Information



For Reference Only

Part Number NDS8425

Manufacturer Fairchild/ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description**MOSFET N-CH 20V 7.4A 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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## **NDS8425 Specifications**

Manufacturer Part Number         NDS8425           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         8-SOIC (0.154", 3.90mm Width)           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         7.4A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         2.7V, 4.5V           Vgs(th) (Max) @ Id         1.5V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         18nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         1098pF @ 15V           Vgs (Max)         ±8V           FET Feature         -           Power Dissipation (Max)         2.5W (Ta)           Rds On (Max) @ Id, Vgs         22 mOhm @ 7.4A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-SOIC (0.154", 3.90mm Width)		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         8-SOIC (0.154", 3.90mm Width)           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         20V           Current - Continuous Drain (Id) @ 25°C         7.4A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         2.7V, 4.5V           Vgs(th) (Max) @ Id         1.5V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         18nC @ 4.5V           Input Capacitance (Ciss) (Max) @ Vds         1098pF @ 15V           Vgs (Max)         ±8V           FET Feature         -           Power Dissipation (Max)         2.5W (Ta)           Rds On (Max) @ Id, Vgs         22 mOhm @ 7.4A, 4.5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-SO           Package / Case         8-SOIC (0.154", 3.90mm Width)	Manufacturer Part Number	NDS8425
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Package8-SOIC (0.154", 3.90mm Width)SeriesPowerTrench?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C7.4A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.7V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs18nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1098pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)2.5W (Ta)Rds On (Max) @ Id, Vgs22 mOhm @ 7.4A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	Category	Discrete Semiconductor Products
Series PowerTrench?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C 7.4A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id 1.5V @ 250µA  Gate Charge (Qg) (Max) @ Vgs 18nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds 1098pF @ 15V  Vgs (Max)  FET Feature - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs 22 mOhm @ 7.4A, 4.5V  Operating Temperature 22 mOhm @ 7.4A, 4.5V  Operating Temperature 55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 8-SO  Package / Case		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 20V Current - Continuous Drain (Id) @ 25°C 7.4A (Ta) Drive Voltage (Max Rds On, Min Rds On) 2.7V, 4.5V Vgs(th) (Max) @ Id 1.5V @ 250μA Gate Charge (Qg) (Max) @ Vgs 18nC @ 4.5V Input Capacitance (Ciss) (Max) @ Vds 1098pF @ 15V Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 22 mOhm @ 7.4A, 4.5V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case	Package	8-SOIC (0.154", 3.90mm Width)
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)20VCurrent - Continuous Drain (Id) @ 25°C7.4A (Ta)Drive Voltage (Max Rds On, Min Rds On)2.7V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs18nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1098pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)2.5W (Ta)Rds On (Max) @ Id, Vgs22 mOhm @ 7.4A, 4.5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	Series	PowerTrench?
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Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  2.7V, 4.5V  Vgs(th) (Max) @ Id  1.5V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  18nC @ 4.5V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±8V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.5W (Ta)  Rds On (Max) @ Id, Vgs  22 mOhm @ 7.4A, 4.5V  Operating Temperature  -55°C ~ 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)2.7V, 4.5VVgs(th) (Max) @ Id1.5V @ 250μAGate Charge (Qg) (Max) @ Vgs18nC @ 4.5VInput Capacitance (Ciss) (Max) @ Vds1098pF @ 15VVgs (Max)±8VFET Feature-Power Dissipation (Max)2.5W (Ta)Rds On (Max) @ Id, Vgs22 mOhm @ 7.4A, 4.5VOperating Temperature-55°C ~ 150°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  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  18nC @ 4.5V  1098pF @ 15V  ±8V  -  EW  -  -  -  -  -  -  -  -  -  -  -  -  -	Current - Continuous Drain (Id) @ 25°C	7.4A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Coperating Type  Surface Mount  Supplier Device Package  Package / Case  18nC @ 4.5V  1098pF @ 15V  2.5W  1098pF @ 15V  28W  ENV  ENV  ENV  ENV  ENV  ENV  ENV  EN	Drive Voltage (Max Rds On, Min Rds On)	2.7V, 4.5V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  22 mOhm @ 7.4A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  8-SOIC (0.154", 3.90mm Width)	Vgs(th) (Max) @ Id	1.5V @ 250μA
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FET Feature - Case - Ca	Input Capacitance (Ciss) (Max) @ Vds	1098pF @ 15V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  22 mOhm @ 7.4A, 4.5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-SO  Package / Case  8-SOIC (0.154", 3.90mm Width)	Vgs (Max)	±8V
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Operating Temperature  -55°C ~ 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 (Ta)
Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Rds On (Max) @ Id, Vgs	22 mOhm @ 7.4A, 4.5V
Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Operating Temperature	-55°C ~ 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?

#### **NDS8425 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.

## **NDS8425 Payment Methods**



















### **NDS8425 Shipping Methods**













If you have any question about NDS8425, please do not hesitate to contact us!

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