

### FDS86140 Information



For Reference Only

Part Number FDS86140

ManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor Products<br/>Transistors - FETs, MOSFETs - Single

**Description**MOSFET N-CH 100V 11.2A 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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# FDS86140 Specifications

Manufacturer Part Number         FD886140           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)         100V           Current - Continuous Drain (Id) @ 25°C         11.2A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         4InC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         2580pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.5W (Ta), 5W (Tc)           Rds On (Max) @ Id, Vgs         9.8 mOhm @ 11.2A, 10V           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)		
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)         100V           Current - Continuous Drain (Id) @ 25°C         11.2A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         6V, 10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         41nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         2580pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.5W (Ta), 5W (Tc)           Rds On (Max) @ Id, Vgs         9.8 mOhm @ 11.2A, 10V           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	FDS86140
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FET Type  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  11.2A (Ta)  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  Operating Temperature  Supplier Device Package  Package / Case  N-Channel  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  100V  11.2A (Ta)  4V @ 250µA  4V @ 250µA  4InC @ 10V  2580pF @ 50V  2580pF @ 50V  2580pF @ 50V  25W (Tc)  98 mOhm @ 11.2A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Surface Mount  Supplier Device Package  8-SOIC (0.154", 3.90mm Width)	Package	8-SOIC (0.154", 3.90mm Width)
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C11.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)6V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs41nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2580pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 5W (Tc)Rds On (Max) @ Id, Vgs9.8 mOhm @ 11.2A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	Series	PowerTrench?
Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C11.2A (Ta)Drive Voltage (Max Rds On, Min Rds On)6V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs41nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2580pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 5W (Tc)Rds On (Max) @ Id, Vgs9.8 mOhm @ 11.2A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  6V, 10V  Vgs(th) (Max) @ Id  4V @ 250µA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  9.8 mOhm @ 11.2A, 10V  Operating Temperature  Supplier Device Package  Package / Case  11.2A (Ta)  6V, 10V  4V @ 250µA  4InC @ 10V  2580pF @ 50V  2580pF @ 50V  25V  TC)  9.8 mOhm @ 11.2A, 10V  9.8 mOhm @ 8 mOhm	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)6V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs41nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2580pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.5W (Ta), 5W (Tc)Rds On (Max) @ Id, Vgs9.8 mOhm @ 11.2A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-SOPackage / Case8-SOIC (0.154", 3.90mm Width)	Drain to Source Voltage (Vdss)	100V
Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	11.2A (Ta)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  2580pF @ 50V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  9.8 mOhm @ 11.2A, 10V  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)	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Input Capacitance (Ciss) (Max) @ Vds  2580pF @ 50V  Vgs (Max)  ET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  9.8 mOhm @ 11.2A, 10V  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(th) (Max) @ Id	4V @ 250μA
Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 2.5W (Ta), 5W (Tc)  Rds On (Max) @ Id, Vgs 9.8 mOhm @ 11.2A, 10V  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)	Gate Charge (Qg) (Max) @ Vgs	41nC @ 10V
FET Feature -  Power Dissipation (Max) 2.5W (Ta), 5W (Tc)  Rds On (Max) @ Id, Vgs 9.8 mOhm @ 11.2A, 10V  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)	Input Capacitance (Ciss) (Max) @ Vds	2580pF @ 50V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  9.8 mOhm @ 11.2A, 10V  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)	±20V
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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), 5W (Tc)
Mounting Type Surface Mount Supplier Device Package 8-SO Package / Case 8-SOIC (0.154", 3.90mm Width)	Rds On (Max) @ Id, Vgs	9.8 mOhm @ 11.2A, 10V
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?

### FDS86140 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.

## FDS86140 Payment Methods





















## FDS86140 Shipping Methods













If you have any question about FDS86140, please do not hesitate to contact us!

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