



### FDMC86116LZ Information



For Reference Only

Part Number FDMC86116LZ

ManufacturerFairchild/ON SemiconductorCategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 100V 3.3A 8-MLP

Package 8-PowerWDFN

For the pricing/inventory/lead time, please contact

us

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## FDMC86116LZ Specifications

Manufacturer         FDMC86116LZ           Manufacturer         Fairchild/ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         8-PowerWDFN           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         3.3A (Ta), 7.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.2V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         6nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         310pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.3W (Ta), 19W (Tc)           Rds On (Max) @ Id, Vgs         103 mOhm @ 3.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-MLP (3.3x3.3)           Package / Case         8-PowerWDFN		TD140044477
Category  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  8-PowerWDFN  Series PowerTrench?  FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 3.3A (Ta), 7.5A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 6nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max)  ### 20V  ### 23W (Ta), 19W (Tc)  ### Rds On (Max) @ Id, Vgs 103 mOhm @ 3.3A, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount Supplier Device Package 8-MLP (3.3x3.3)  Package / Case	Manufacturer Part Number	FDMC86116LZ
Package         8-PowerWDFN           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         3.3A (Ta), 7.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         6nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         310pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.3W (Ta), 19W (Tc)           Rds On (Max) @ Id, Vgs         103 mOhm @ 3.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-MLP (3.3x3.3)           Package / Case         8-PowerWDFN	Manufacturer	Fairchild/ON Semiconductor
Package         8-PowerWDFN           Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         3.3A (Ta), 7.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.2V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         6nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         310pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.3W (Ta), 19W (Tc)           Rds On (Max) @ Id, Vgs         103 mOhm @ 3.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-MLP (3.3x3.3)           Package / Case         8-PowerWDFN	Category	Discrete Semiconductor Products
Series         PowerTrench?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         3.3A (Ta), 7.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         6nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         310pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.3W (Ta), 19W (Tc)           Rds On (Max) @ Id, Vgs         103 mOhm @ 3.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-MLP (3.3x3.3)           Package / Case         8-PowerWDFN		Transistors - FETs, MOSFETs - Single
FET Type  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  3.3A (Ta), 7.5A (Tc)  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  103 mOhm @ 3.3A, 10V  Operating Temperature  Surface Mount  Supplier Device Package  8-MLP (3.3x3.3)  Package / Case	Package	8-PowerWDFN
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 3.3A (Ta), 7.5A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max)  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 103 mOhm @ 3.3A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package 8-MLP (3.3x3.3) Package / Case	Series	PowerTrench?
Drain to Source Voltage (Vdss)       100V         Current - Continuous Drain (Id) @ 25°C       3.3A (Ta), 7.5A (Tc)         Drive Voltage (Max Rds On, Min Rds On)       4.5V, 10V         Vgs(th) (Max) @ Id       2.2V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       6nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       310pF @ 50V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       2.3W (Ta), 19W (Tc)         Rds On (Max) @ Id, Vgs       103 mOhm @ 3.3A, 10V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       8-MLP (3.3x3.3)         Package / Case       8-PowerWDFN	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  103 mOhm @ 3.3A, 10V  Operating Temperature  Supplier Device Package  8-MLP (3.3x3.3)  Package / Case  3.3A (Ta), 7.5A (Tc)  4.5V, 10V  2.2V @ 250µA  6nC @ 10V  310pF @ 50V  2.3V (Ta), 19W (Tc)  Surface Mount  8.4B (A)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Cate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Inout Capacitance (Tiss)  Power Dissipation (Max)  Supplier Device Package  Package / Case  4.5V, 10V  2.2V @ 250μA  6nC @ 10V  310pF @ 50V  2.3V (Ta), 19W (Tc)  103 mOhm @ 3.3A, 10V  CT)  Surface Mount  Surface Mount  Supplier Device Package  8-MLP (3.3x3.3)  8-PowerWDFN	Drain to Source Voltage (Vdss)	100V
Vgs(th) (Max) @ Id       2.2V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       6nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       310pF @ 50V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       2.3W (Ta), 19W (Tc)         Rds On (Max) @ Id, Vgs       103 mOhm @ 3.3A, 10V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       8-MLP (3.3x3.3)         Package / Case       8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	3.3A (Ta), 7.5A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  +20V  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  6nC @ 10V  310pF @ 50V  -20V  -20V  FET Feature  -20V  103 mOhm @ 3.3A, 10V  -55°C ~ 150°C (TJ)  Surface Mount  Supplier Device Package  8-MLP (3.3x3.3)  8-PowerWDFN	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  103 mOhm @ 3.3A, 10V  Operating Temperature  Copyright Temperature  Surface Mount  Supplier Device Package  Package / Case  8-PowerWDFN	Vgs(th) (Max) @ Id	2.2V @ 250μA
Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.3W (Ta), 19W (Tc)           Rds On (Max) @ Id, Vgs         103 mOhm @ 3.3A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         8-MLP (3.3x3.3)           Package / Case         8-PowerWDFN	Gate Charge (Qg) (Max) @ Vgs	6nC @ 10V
FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  103 mOhm @ 3.3A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-MLP (3.3x3.3)  Package / Case  8-PowerWDFN	Input Capacitance (Ciss) (Max) @ Vds	310pF @ 50V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  103 mOhm @ 3.3A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-MLP (3.3x3.3)  Package / Case  8-PowerWDFN	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs103 mOhm @ 3.3A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device Package8-MLP (3.3x3.3)Package / Case8-PowerWDFN	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  8-MLP (3.3x3.3)  Package / Case  8-PowerWDFN	Power Dissipation (Max)	2.3W (Ta), 19W (Tc)
Mounting Type Surface Mount Supplier Device Package 8-MLP (3.3x3.3) Package / Case 8-PowerWDFN	Rds On (Max) @ Id, Vgs	103 mOhm @ 3.3A, 10V
Supplier Device Package 8-MLP (3.3x3.3) Package / Case 8-PowerWDFN	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case 8-PowerWDFN	Mounting Type	Surface Mount
	Supplier Device Package	8-MLP (3.3x3.3)
Report errors?	Package / Case	8-PowerWDFN
		Report errors?

#### FDMC86116LZ 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.

## FDMC86116LZ Payment Methods





















## FDMC86116LZ Shipping Methods













If you have any question about FDMC86116LZ, please do not hesitate to contact us!

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