



FDMC86520L

Manufacturer Part Number	FDMC86520L
Manufacturer	Fairchild (onsemi)
Allelco Part Number	32D-FDMC86520L
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	POWER FIELD-EFFECT TRANSISTOR, 1
Package	8-PowerWDFN
Data sheet	FDMC86520L.pdf

Get a Quote

FDMC86520L - Fairchild Semiconductor. New Original in Stock. Download Linear Technology FDMC86520L datasheet/specifications on AllelcoElec.com.
Request a quote for FDMC86520L, please send us email: info@allelco.com

Specifications

FDMC86520L Tech Specifications
FDMC86520L - Fairchild Semiconductor technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Fairchild (onsemi)	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	3V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	4550 pF @ 30 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	64 nC @ 10 V
Supplier Device Package	8-MLP (3.3x3.3)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	7.9mOhm @ 13.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.3W (Ta), 40W (Tc)	Drain to Source Voltage (Vdss)	60 V
Package / Case	8-PowerWDFN	Current - Continuous Drain (Id) @ 25°C	13.5A (Ta), 22A (Tc)
Package	Bulk		

Parts with Similar Specifications

The three parts on the right have similar specifications to Fairchild Semiconductor FDMC86520L

Product Attribute				
Part Number	FDMC86520L	FDMC86520DC	FDMC86570L	FDMC8678S
Manufacturer	Fairchild Semiconductor	onsemi	onsemi	onsemi
Vgs(th) (Max) @ Id	3V @ 250µA	4.5V @ 250µA	3V @ 250µA	3V @ 1mA
FET Feature	-	-	-	-
Package / Case	8-PowerWDFN	8-PowerTDFN	8-PowerWDFN	8-PowerTDFN
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Supplier Device Package	8-MLP (3.3x3.3)	Dual Cool™ 33	Power33	Power33
Vgs (Max)	±20V	±20V	±20V	±20V
Package	Bulk	Tape & Reel (TR)	Tape & Reel (TR)	Bulk
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	8V, 10V	4.5V, 10V	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds	4550 pF @ 30 V	2790 pF @ 30 V	6705 pF @ 30 V	2075 pF @ 15 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Power Dissipation (Max)	2.3W (Ta), 40W (Tc)	3W (Ta), 73W (Tc)	2.3W (Ta), 54W (Tc)	2.3W (Ta), 41W (Tc)
Series	PowerTrench®	Dual Cool™, PowerTrench®	PowerTrench®	PowerTrench®
Drain to Source Voltage (Vdss)	60 V	60 V	60 V	30 V
Gate Charge (Qg) (Max) @ Vgs	64 nC @ 10 V	40 nC @ 10 V	88 nC @ 10 V	34 nC @ 10 V
Rds On (Max) @ Id, Vgs	7.9mOhm @ 13.5A, 10V	6.3mOhm @ 17A, 10V	4.3mOhm @ 18A, 10V	5.2mOhm @ 15A, 10V
Current - Continuous Drain (Id) @ 25°C	13.5A (Ta), 22A (Tc)	17A (Ta), 40A (Tc)	18A (Ta), 56A (Tc)	15A (Ta), 18A (Tc)

Customers Also Interested in

Recommended Products

FDMC86520DC
onsemi
MOSFET N-CH 60V 17A/40A
DLCOOL33

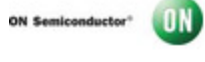
FDMC86570L
onsemi
MOSFET N-CH 60V 18A/56A
POWER33

FDMC8678S
onsemi
15A, 30V, 0.0052OHM, N-CHANNEL P

FDMC8854
onsemi
MOSFET N-CH 30V 15A 8MLP

FDMC8854
Fairchild Semiconductor
POWER FIELD-EFFECT TRANSISTOR,
1

FDMC86340ET80
onsemi
MOSFET N-CH 80V 14A/68A
POWER33

FDMC86320	FDMC86520L	FDMC86340 MOS	FDMC86570LET60	FDMC86340	FDMC8678S
Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	onsemi MOSFET N-CH 60V 13.5A/22A 8MLP	Fairchild (onsemi)	onsemi MOSFET N-CH 60V 18A/87A POWER33	Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	Fairchild Semiconductor MOSFET N-CH 30V 15A/18A POWER33
					
FDMC8651 onsemi MOSFET N-CH 30V 15A/20A POWER33	FDMC86340 onsemi MOSFET N-CH 80V 14A/48A POWER33	FDMC86324 onsemi MOSFET N-CH 80V 7A/20A POWER33	FDMC8676 onsemi 16A, 30V, 0.0059OHM, N-CHANNEL P	FDMC8676 Fairchild Semiconductor MOSFET N-CH 30V 16A/18A POWER33	FDMC86320 onsemi MOSFET N-CH 80V 10.7A/22A 8MLP

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



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Delivery

Contact us if you have any questions.



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