



FDB120N10

Manufacturer Part Number	FDB120N10
Manufacturer	Fairchild (onsemi)
Allelco Part Number	32D-FDB120N10
ECAD Model	Request Free CAD Models
Parts Description	POWER FIELD-EFFECT TRANSISTOR, 7
Package	TO-263-3, D²Pak (2 Leads + Tab), TO-263AB
Data sheet	FDB120N10.pdf



Get a Quote

FDB120N10 - Fairchild Semiconductor. New Original in Stock. Download Linear Technology FDB120N10 datasheet/specifications on AllelcoElec.com.
Request a quote for FDB120N10, please send us email: info@allelco.com

Specifications

FDB120N10 Tech Specifications

FDB120N10 - Fairchild Semiconductor technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Fairchild (onsemi)	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4.5V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	5605 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	86 nC @ 10 V
Supplier Device Package	D2PAK (TO-263)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	12mOhm @ 74A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	170W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	74A (Tc)
Package	Bulk		

Parts with Similar Specifications

The three parts on the right have similar specifications to Fairchild Semiconductor FDB120N10

Product Attribute				
Part Number	FDB120N10	FDB110N15A	FDB120N10	FDB088N08
Manufacturer	Fairchild Semiconductor	Fairchild Semiconductor	onsemi	Fairchild Semiconductor
Gate Charge (Qg) (Max) @ Vgs	86 nC @ 10 V	61 nC @ 10 V	86 nC @ 10 V	118 nC @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Vgs(th) (Max) @ Id	4.5V @ 250µA	4V @ 250µA	4.5V @ 250µA	4V @ 250µA
FET Feature	-	-	-	-
Supplier Device Package	D2PAK (TO-263)	D ² PAK (TO-263)	D ² PAK (TO-263)	D2PAK (TO-263)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	170W (Tc)	234W (Tc)	170W (Tc)	160W (Tc)
Rds On (Max) @ Id, Vgs	12mOhm @ 74A, 10V	11mOhm @ 92A, 10V	12mOhm @ 74A, 10V	8.8mOhm @ 75A, 10V
Current - Continuous Drain (Id) @ 25°C	74A (Tc)	92A (Tc)	74A (Tc)	120A (Tc)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Input Capacitance (Ciss) (Max) @ Vds	5605 pF @ 25 V	4510 pF @ 75 V	5605 pF @ 25 V	6595 pF @ 25 V
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
Package	Bulk	Bulk	Tape & Reel (TR)	Bulk
Vgs (Max)	±20V	±20V	±20V	±20V
Drain to Source Voltage (Vdss)	100 V	150 V	100 V	75 V

Customers Also Interested in

Recommended Products

FDB08N150

Fairchild (onsemi)

FDB110N15A

Fairchild Semiconductor
POWER FIELD-EFFECT TRANSISTOR,
9

FDB120N10

onsemi
MOSFET N-CH 100V 74A D2PAK

FDB12N50

Fairchild (onsemi)

FDB082N15ATM

Fairchild (onsemi)

FDB088N08

Fairchild Semiconductor
POWER FIELD-EFFECT TRANSISTOR,
8

FDB12N50T

Fairchild (onsemi)

**FDB082N15A MOS**

Fairchild (onsemi)

**FDB12N50TM**onsemi
MOSFET N-CH 500V 11.5A D2PAK**FDB12N50F**

Fairchild (onsemi)

**FDB088N08**onsemi
MOSFET N-CH 75V 120A D2PAK**FDB10AN06AO**onsemi
MOSFET N-CH 60V 12A/75A
TO263AB**FDB12N50FTM**Fairchild Semiconductor
MOSFET N-CH 500V 11.5A D2PAK**FDB110N15A**onsemi
MOSFET N-CH 150V 92A D2PAK**FDB120N10 MOS**

AMI Semiconductor/onsemi

FDB12N50TM MOS

Fairchild (onsemi)

FDB12N50TMFairchild Semiconductor
POWER FIELD-EFFECT TRANSISTOR,
1**FDB10AN06AO**

Fairchild (onsemi)

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

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

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.

Payment Support

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

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



Your Faithful Supply Chain Partner -



Efficient Supply Management



Cost-Saving Procurement



Fast Sourcing & Delivery

Contact us if you have any questions.



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Certifications & Memberships



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