



# FDC653N

Manufacturer Part Number	<b>FDC653N</b>
Manufacturer	<b>Fairchild (onsemi)</b>
Allelco Part Number	32D-FDC653N
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	SMALL SIGNAL FIELD-EFFECT TRANSI
Package	SOT-23-6 Thin, TSOT-23-6
Data sheet	FDC653N.pdf



Get a Quote

FDC653N - Fairchild Semiconductor. New Original in Stock. Download Linear Technology FDC653N datasheet/specifications on AllelcoElec.com.  
Request a quote for FDC653N, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

FDC653N Tech Specifications

FDC653N - 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	2V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	350 pF @ 15 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	17 nC @ 10 V
Supplier Device Package	SuperSOT™-6	FET Type	N-Channel
Series	-	FET Feature	-
Rds On (Max) @ Id, Vgs	35mOhm @ 5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	1.6W (Ta)	Drain to Source Voltage (Vdss)	30 V
Package / Case	SOT-23-6 Thin, TSOT-23-6	Current - Continuous Drain (Id) @ 25°C	5A (Ta)
Package	Bulk		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Fairchild Semiconductor FDC653N

Product Attribute				
Part Number	FDC653N	FDC654P	FDC653N	FDC655AN
Manufacturer	Fairchild Semiconductor	Fairchild Semiconductor	onsemi	onsemi
Vgs (Max)	±20V	±20V	±20V	±20V
Current - Continuous Drain (Id) @ 25°C	5A (Ta)	3.6A (Ta)	5A (Ta)	6.3A (Ta)
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Series	-	PowerTrench®	-	PowerTrench®
Package / Case	SOT-23-6 Thin, TSOT-23-6	SOT-23-6 Thin, TSOT-23-6	SOT-23-6 Thin, TSOT-23-6	SOT-23-6 Thin, TSOT-23-6
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drain to Source Voltage (Vdss)	30 V	30 V	30 V	30 V
Vgs(th) (Max) @ Id	2V @ 250µA	3V @ 250µA	2V @ 250µA	3V @ 250µA
FET Feature	-	-	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	35mOhm @ 5A, 10V	75mOhm @ 3.6A, 10V	35mOhm @ 5A, 10V	27mOhm @ 6.3A, 10V
Gate Charge (Qg) (Max) @ Vgs	17 nC @ 10 V	9 nC @ 10 V	17 nC @ 10 V	13 nC @ 5 V
Package	Bulk	Bulk	Tape & Reel (TR)	Tape & Reel (TR)
FET Type	N-Channel	P-Channel	N-Channel	N-Channel
Power Dissipation (Max)	1.6W (Ta)	1.6W (Ta)	1.6W (Ta)	1.6W (Ta)
Supplier Device Package	SuperSOT™-6	SuperSOT™-6	SuperSOT™-6	SuperSOT™-6
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Input Capacitance (Ciss) (Max) @ Vds	350 pF @ 15 V	298 pF @ 15 V	350 pF @ 15 V	830 pF @ 15 V

## Customers Also Interested in

### Recommended Products



**FDC645N MOS**

Fairchild (onsemi)



**FDC654P MOS**

Fairchild (onsemi)



**FDC653N MOS**

Fairchild (onsemi)



**FDC654P**

Fairchild Semiconductor  
SMALL SIGNAL FIELD-EFFECT  
TRANSI



**FDC652P**

Fairchild (onsemi)



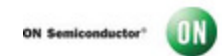
**FDC653N**

onsemi  
MOSFET N-CH 30V 5A SUPERSOT6



**FDC6506\_NL**

Fairchild (onsemi)

**FDC6506P MOS**

Fairchild (onsemi)

**FDC655AN**onsemi  
MOSFET N-CH 30V 6.3A SUPERSOT6**FDC645N\_NL**

Fairchild (onsemi)

**FDC645N-NL**

Fairchild (onsemi)

**FDC6506P**onsemi  
MOSFET 2P-CH 30V 1.8A SSOT6**FDC6506**

AMI Semiconductor/onsemi

**FDC653N-F073**

Fairchild (onsemi)

**FDC653N-NL**

Fairchild (onsemi)

**FDC653**

Fairchild (onsemi)

**FDC654P**onsemi  
MOSFET P-CH 30V 3.6A SUPERSOT6**FDC6506P-NL**

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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Email

info@allelco.com

## Certifications & Memberships



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