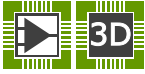





# FDC6420C

Manufacturer Part Number	<b>FDC6420C</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDC6420C
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N/P-CH 20V 3A/2.2A SSOT-6
Package	SOT-23-6 Thin, TSOT-23-6
Data sheet	<b>FDC6420C.pdf</b>
RoHs Status	 ROHS3 Compliant



**Get a Quote**

FDC6420C - onsemi.New Original in Stock. Download Linear Technology FDC6420C datasheet/specifications on AllelcoElec.com.  
Request a quote for FDC6420C, please send us email: [info@allelco.com](mailto:info@allelco.com)


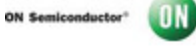


## Specifications

FDC6420C Tech Specifications  
FDC6420C - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	1.5V @ 250µA	Mounting Type	Surface Mount
Technology	MOSFET (Metal Oxide)	Input Capacitance (Ciss) (Max) @ Vds	324pF @ 10V
Supplier Device Package	SuperSOT™-6	Gate Charge (Qg) (Max) @ Vgs	4.6nC @ 4.5V
Series	PowerTrench®	FET Feature	Logic Level Gate
Rds On (Max) @ Id, Vgs	70mOhm @ 3A, 4.5V	Drain to Source Voltage (Vdss)	20V
Power - Max	700mW	Current - Continuous Drain (Id) @ 25°C	3A, 2.2A
Package / Case	SOT-23-6 Thin, TSOT-23-6	Configuration	N and P-Channel
Package	Tape & Reel (TR)	Base Product Number	FDC6420

## Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDC6420C

Product Attribute	 NO PICTURE			
Part Number	FDC6420C	<a href="#">FDC6401N</a>	<a href="#">FDC6432SH</a>	<a href="#">FDC6432SH</a>
Manufacturer	onsemi	onsemi	Fairchild Semiconductor	onsemi
Rds On (Max) @ Id, Vgs	70mOhm @ 3A, 4.5V	70mOhm @ 3A, 4.5V	90mOhm @ 2.4A, 10V	90mOhm @ 2.4A, 10V
Power - Max	700mW	700mW	700mW	700mW
Series	PowerTrench®	PowerTrench®	PowerTrench®, SyncFET™	PowerTrench®, SyncFET™
FET Feature	Logic Level Gate	-	Logic Level Gate	Logic Level Gate
Gate Charge (Qg) (Max) @ Vgs	4.6nC @ 4.5V	4.6nC @ 4.5V	3.5nC @ 5V	3.5nC @ 5V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
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
Vgs(th) (Max) @ Id	1.5V @ 250µA	1.5V @ 250µA	3V @ 1mA	3V @ 1mA
Supplier Device Package	SuperSOT™-6	SuperSOT™-6	SuperSOT™-6	SuperSOT™-6
Input Capacitance (Ciss) (Max) @ Vds	324pF @ 10V	324pF @ 10V	270pF @ 15V	270pF @ 15V
Drain to Source Voltage (Vdss)	20V	20V	30V, 12V	30V, 12V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	FDC6420	FDC6401	FDC6432	FDC6432
Package	Tape & Reel (TR)	Tape & Reel (TR)	Bulk	Tape & Reel (TR)
Current - Continuous Drain (Id) @ 25°C	3A, 2.2A	3A	2.4A, 2.5A	2.4A, 2.5A
Configuration	N and P-Channel	2 N-Channel (Dual)	N and P-Channel	N and P-Channel
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount


## FDC6420C Datasheet PDF

Download FDC6420C pdf datasheets and onsemi documentation for FDC6420C - onsemi.


### Datasheets



[FDC6420C.pdf](#)

### Environmental Information


[onsemi RoHS.pdf](#)

### PCN Design/Specification


[Marking Change 07/Oct/2022.pdf](#)


[Marking Change 17/Nov/2021.pdf](#)

### PCN Packaging

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

<b>FDC6420C-NL</b> VBSEMI	<b>FDC640P</b> onsemi MOSFET P-CH 20V 4.5A SUPERSOT6	<b>FDC6420C_NL</b> AMI Semiconductor/onsemi	<b>FDC6401N</b> onsemi MOSFET 2N-CH 20V 3A SSOT-6	<b>FDC640P MOS</b> Fairchild (onsemi)	<b>FDC642P</b> Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI
<b>FDC6392S</b> Fairchild Semiconductor 2.2A, 20V, P-CHANNEL, MOSFET	<b>FDC6392S</b> onsemi MOSFET P-CH 20V 2.2A SUPERSOT6	<b>FDC638P_NL</b> Fairchild (onsemi)	<b>FDC6432SH</b> Fairchild Semiconductor SMALL SIGNAL P-CHANNEL MOSFET	<b>FDC640P-NL</b> Fairchild (onsemi)	<b>FDC642P</b> onsemi MOSFET P-CH 20V 4A SUPERSOT6
<b>FDC642P-F085P</b> onsemi MOSFET P-CH 20V 4A TSOT23-6	<b>FDC6432SH</b> onsemi MOSFET N/P-CH 30V/12V SSOT-6	<b>FDC6420</b> MI	<b>FDC642P_NL</b> Fairchild (onsemi)	<b>FDC6392S MOS</b> Fairchild (onsemi)	<b>FDC642P MOS</b> 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.

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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
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Contact us if you have any questions.

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Certifications & Memberships



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