



BSF050N03LQ3G

Manufacturer Part Number	BSF050N03LQ3G
Manufacturer	Infineon Technologies
Allelco Part Number	32D-BSF050N03LQ3G
ECAD Model	Request Free CAD Models
Parts Description	N-CHANNEL POWER MOSFET
Package	DirectFET™ Isometric MX
Data sheet	BSF050N03LQ3G.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

BSF050N03LQ3G - Infineon Technologies. New Original in Stock. Download Linear Technology BSF050N03LQ3G datasheet/specifications on AllelcoElec.com.
Request a quote for BSF050N03LQ3G, please send us email: info@allelco.com

Specifications

BSF050N03LQ3G Tech Specifications
BSF050N03LQ3G - Infineon Technologies technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Infineon Technologies	Operating Temperature	-40°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	2.2V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	3000 pF @ 15 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	42 nC @ 10 V
Supplier Device Package	MG-WDSO-2	FET Type	N-Channel
Series	OptiMOS®	FET Feature	-
Rds On (Max) @ Id, Vgs	5mOhm @ 20A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.2W (Ta), 28W (Tc)	Drain to Source Voltage (Vdss)	30 V
Package / Case	DirectFET™ Isometric MX	Current - Continuous Drain (Id) @ 25°C	15A (Ta), 60A (Tc)
Package	Bulk		

Parts with Similar Specifications

The three parts on the right have similar specifications to Infineon Technologies BSF050N03LQ3G

Product Attribute				
Part Number	BSF050N03LQ3G	AO4701	STT3PF30L	FDPF12N50T
Manufacturer	Infineon Technologies	Alpha & Omega Semiconductor Inc.	STMicroelectronics	onsemi
Rds On (Max) @ Id, Vgs	5mOhm @ 20A, 10V	49mOhm @ 5A, 10V	165mOhm @ 1.5A, 10V	650mOhm @ 6A, 10V
Input Capacitance (Ciss) (Max) @ Vds	3000 pF @ 15 V	952 pF @ 15 V	420 pF @ 25 V	1315 pF @ 25 V
Operating Temperature	-40°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Through Hole
Supplier Device Package	MG-WDSO-2	8-SOIC	SOT-23-6	TO-220F-3
Power Dissipation (Max)	2.2W (Ta), 28W (Tc)	2W (Ta)	1.6W (Tc)	42W (Tc)
Package	Bulk	Tape & Reel (TR)	Tape & Reel (TR)	Tube
Current - Continuous Drain (Id) @ 25°C	15A (Ta), 60A (Tc)	5A (Ta)	2.4A (Tc)	11.5A (Tc)
Vgs(th) (Max) @ Id	2.2V @ 250µA	1.3V @ 250µA	2.5V @ 250µA	5V @ 250µA
Package / Case	DirectFET™ Isometric MX	8-SOIC (0.154", 3.90mm Width)	SOT-23-6	TO-220-3 Full Pack
FET Type	N-Channel	P-Channel	P-Channel	N-Channel
Gate Charge (Qg) (Max) @ Vgs	42 nC @ 10 V	9.5 nC @ 4.5 V	7 nC @ 4.5 V	30 nC @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	2.5V, 10V	4.5V, 10V	10V
Drain to Source Voltage (Vdss)	30 V	30 V	30 V	500 V
FET Feature	-	Schottky Diode (Isolated)	-	-
Series	OptiMOS®	-	STripFET™ II	UniFET™
Vgs (Max)	±20V	±12V	±16V	±30V

Customers Also Interested in

Recommended Products

BSF3010LQHMU4R7M.T GP Systems GmbH	BSF035NE2LQ Cypress Semiconductor (Infineon Technologies)	BSF073NE2LQG INENOI	AO4701 Alpha & Omega Semiconductor Inc. MOSFET P-CH 30V 5A 8SOIC	BSF053N03LTG Cypress Semiconductor (Infineon Technologies)	BSF2966K BSF

BSF045N03LQ3GCypress Semiconductor
(Infineon Technologies)**SI7107DN-T1-GE3**Vishay Siliconix
MOSFET P-CH 20V 9.8A PPAK1212-8**STT3PF30L**STMicroelectronics
MOSFET P-CH 30V 2.4A SOT23-6**BSF134N10NJ3G**Infineon Technologies
BSF134N10 - 12V-300V N-CHANNEL
P**FDPF12N50T**onsemi
MOSFET N-CH 500V 11.5A TO220F**BSF024N03LT3G**Infineon Technologies
N-CHANNEL POWER MOSFET**BSF083N03LQG**Infineon Technologies
N-CHANNEL POWER MOSFET**BSF0704RHSU-101M**

KINGCORE

BSF134N10NJ3GXUMA1Infineon Technologies
MOSFET N-CH 100V 9A/40A 2WDSON**BSF885N03LQ3G**Infineon Technologies
N-CHANNEL POWER MOSFET**SCH1331-TL-H**onsemi
MOSFET P-CH 12V 3A 6SCH**BSF030NE2LQ**Cypress Semiconductor
(Infineon Technologies)

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.



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Management



Cost-Saving
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Delivery

Contact us if you have any questions.



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Email

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