



Image may be representation.  
See specifications for product details.



## IPB010N06NATMA1

Manufacturer Part Number	<b>IPB010N06NATMA1</b>
Manufacturer	<b>Infineon Technologies</b>
Allelco Part Number	32D-IPB010N06NATMA1
ECAD Model	PCB Footprint and Symbol
Parts Description	<b>MOSFET N-CH 60V 45A/180A TO263-7</b>
Package	<b>TO-263-7, D<sup>2</sup>Pak (6 Leads + Tab)</b>
Data sheet	IPB010N06NATMA1.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

IPB010N06NATMA1 - Infineon Technologies. New Original in Stock. Download Linear Technology IPB010N06NATMA1 datasheet/specifications on AllelcoElec.com. Request a quote for IPB010N06NATMA1, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

IPB010N06NATMA1 Tech Specifications  
IPB010N06NATMA1 - Infineon Technologies technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Infineon Technologies	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4V @ 280µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	15000 pF @ 30 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	208 nC @ 10 V
Supplier Device Package	PG-TO263-7	FET Type	N-Channel
Series	OptiMOS™	FET Feature	-
Rds On (Max) @ Id, Vgs	1mOhm @ 100A, 10V	Drive Voltage (Max Rds On, Min Rds On)	6V, 10V
Power Dissipation (Max)	300W (Tc)	Drain to Source Voltage (Vdss)	60 V
Package / Case	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)	Current - Continuous Drain (Id) @ 25°C	45A (Ta), 180A (Tc)
Package	Tape & Reel (TR)	Base Product Number	IPB010

### Parts with Similar Specifications

The three parts on the right have similar specifications to Infineon Technologies IPB010N06NATMA1

Product Attribute				
Part Number	IPB010N06NATMA1	<b>IPB011N04NGATMA1</b>	<b>IPB017N08N5ATMA1</b>	<b>IPB015N08N5ATMA1</b>
Manufacturer	Infineon Technologies	Infineon Technologies	Infineon Technologies	Infineon Technologies
Supplier Device Package	PG-TO263-7	PG-TO263-7-3	PG-TO263-3	PG-TO263-7
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Vgs (Max)	±20V	±20V	±20V	±20V
Vgs(th) (Max) @ Id	4V @ 280µA	4V @ 200µA	3.8V @ 280µA	3.8V @ 279µA
FET Feature	-	-	-	-
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Series	OptiMOS™	OptiMOS™	OptiMOS™	OptiMOS™
Rds On (Max) @ Id, Vgs	1mOhm @ 100A, 10V	1.1mOhm @ 100A, 10V	1.7mOhm @ 100A, 10V	1.5mOhm @ 100A, 10V
Gate Charge (Qg) (Max) @ Vgs	208 nC @ 10 V	250 nC @ 10 V	223 nC @ 10 V	222 nC @ 10 V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Input Capacitance (Ciss) (Max) @ Vds	15000 pF @ 30 V	20000 pF @ 20 V	16900 pF @ 40 V	16900 pF @ 40 V
Power Dissipation (Max)	300W (Tc)	250W (Tc)	375W (Tc)	375W (Tc)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Current - Continuous Drain (Id) @ 25°C	45A (Ta), 180A (Tc)	180A (Tc)	120A (Tc)	180A (Tc)
Package / Case	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	TO-263-7, D <sup>2</sup> Pak (6 Leads + Tab)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss)	60 V	40 V	80 V	80 V
Drive Voltage (Max Rds On, Min Rds On)	6V, 10V	10V	6V, 10V	6V, 10V
Base Product Number	IPB010	IPB011	IPB017	IPB015

### IPB010N06NATMA1 Datasheet PDF

Download IPB010N06NATMA1 pdf datasheets and Infineon Technologies documentation for IPB010N06NATMA1 - Infineon Technologies.

#### Other Related Documents

Part Number Guide.pdf

#### PCN Packaging

Mult Dev Pkg Box Chg 3/Jan/2018.pdf

#### PCN Assembly/Origin



## Customers Also Interested in

### Recommended Products

<b>IPB009N03L</b> INF	<b>IPB017N06N3G</b> Cypress Semiconductor (Infineon Technologies) IGBT Module	<b>IPB017N10N5</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB015N04NG</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB017N06N3</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB015N04LG</b> Cypress Semiconductor (Infineon Technologies)
<b>IPB011N04NGATMA1</b> Infineon Technologies MOSFET N-CH 40V 180A TO263-7	<b>IPB016N06L3G</b> Cypress Semiconductor (Infineon Technologies) IGBT Module	<b>IPB010N06N</b> Cypress Semiconductor (Infineon Technologies) IGBT Module	<b>IPB017N08N5ATMA1</b> Infineon Technologies MOSFET N-CH 80V 120A D2PAK	<b>IPB015N08N5</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB015N08N5ATMA1</b> Infineon Technologies MOSFET N-CH 80V 180A TO263-7
<b>IPB011N04NG MOS</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB017N08N5</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB014N06N</b> Cypress Semiconductor (Infineon Technologies) IGBT Module	<b>IPB009N03LG</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB011N04NG</b> Cypress Semiconductor (Infineon Technologies)	<b>IPB011N04LG</b> 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.



### 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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### Contact us

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