



# APT8075BN

Manufacturer Part Number	<b>APT8075BN</b>
Manufacturer	<b>Microsemi</b>
Allelco Part Number	32D-APT8075BN
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 800V 13A TO247AD
Package	TO-247-3
Data sheet	<b>APT8075BN, APT8090BN.pdf</b>



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APT8075BN - Microsemi Corporation. New Original in Stock. Download Linear Technology APT8075BN datasheet/specifications on AllelcoElec.com.  
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## Specifications

APT8075BN Tech Specifications

APT8075BN - Microsemi Corporation technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microsemi	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	4V @ 1mA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	2950 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	130 nC @ 10 V
Supplier Device Package	TO-247AD	FET Type	N-Channel
Series	POWER MOS IV®	FET Feature	-
Rds On (Max) @ Id, Vgs	750mOhm @ 6.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	310W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	13A (Tc)
Package	Tube		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microsemi Corporation APT8075BN

Product Attribute	NO PICTURE			
Part Number	APT8075BN	APT8030LVRG	APT80M60J	APT80SM120B
Manufacturer	Microsemi Corporation	Microchip Technology	Microchip Technology	Microsemi Corporation
Drain to Source Voltage (Vdss)	800 V	800 V	600 V	1200 V
Supplier Device Package	TO-247AD	TO-264 [L]	ISOTOP®	TO-247
Power Dissipation (Max)	310W (Tc)	-	960W (Tc)	555W (Tc)
Mounting Type	Through Hole	Through Hole	Chassis Mount	Through Hole
Series	POWER MOS IV®	POWER MOS V®	POWER MOS 8™	-
Package / Case	TO-247-3	TO-264-3, TO-264AA	SOT-227-4, miniBLOC	TO-247-3
Input Capacitance (Ciss) (Max) @ Vds	2950 pF @ 25 V	7900 pF @ 25 V	24000 pF @ 25 V	-
Current - Continuous Drain (Id) @ 25°C	13A (Tc)	27A (Tc)	84A (Tc)	80A (Tc)
Gate Charge (Qg) (Max) @ Vgs	130 nC @ 10 V	510 nC @ 10 V	600 nC @ 10 V	235 nC @ 20 V
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	750mOhm @ 6.5A, 10V	300mOhm @ 500mA, 10V	55mOhm @ 60A, 10V	55mOhm @ 40A, 20V
Drive Voltage (Max Rds On, Min Rds On)	10V	-	10V	20V
Vgs(th) (Max) @ Id	4V @ 1mA	4V @ 2.5mA	5V @ 5mA	2.5V @ 1mA
Package	Tube	Tube	Tube	Bulk
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	SiCFET (Silicon Carbide)
Operating Temperature	-55°C ~ 150°C (TJ)	-	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)
Vgs (Max)	±30V	-	±30V	+25V, -10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel

## APT8075BN Datasheet PDF

Download APT8075BN pdf datasheets and Microsemi Corporation documentation for APT8075BN - Microsemi Corporation.

### Datasheets

[APT8075BN, APT8090BN.pdf](#)

### Environmental Information

[Microchip CA Prop65.pdf](#)

[Microchip REACH.pdf](#)



















[Microchip RoHS.pdf](#)

### PCN Obsolescence/ EOL

[Legacy Prod EOL 1/Mar/2017.pdf](#)

## Customers Also Interested in

### Recommended Products

 NO PICTURE				 NO PICTURE	 NO PICTURE
<b>APT8075BNR</b> APT	<b>APT80GP60J</b> Microchip Technology IGBT MOD 600V 151A 462W ISOTOP	<b>APT8030LVFRG</b> Microchip Technology MOSFET N-CH 800V 27A TO264	<b>APT80M60J</b> Microchip Technology MOSFET N-CH 600V 84A ISOTOP	<b>APT8056BVR</b> APT	<b>APT8065BVFR</b> APT
	 NO PICTURE	 NO PICTURE	 NO PICTURE	 NO PICTURE	
<b>APT80SM120B</b> Microsemi Corporation SICFET N-CH 1200V 80A TO247	<b>APT8075BVFRG</b> APT	<b>APT8030LVFR</b> APT	<b>APT8030JVR</b> APT IGBT Module	<b>APT8056BVFR</b> APT	<b>APT80GP60JDQ3</b> Microchip Technology IGBT 600V 151A 462W SOT227
 NO PICTURE		 NO PICTURE	 NO PICTURE	 NO PICTURE	
<b>APT80GP60JDF</b> APT	<b>APT8030LVFRG</b> Microchip Technology MOSFET N-CH 800V 27A TO264	<b>APT80GP60JDF3</b> APT IGBT Module	<b>APT8030LVR</b> APT	<b>APT8065BVR</b> APT	<b>APT85GR120L</b> Microchip Technology IGBT 1200V 170A 962W TO264

## 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.

 Phone  
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### Certifications & Memberships



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