



# NTH027N65S3F-F155

Manufacturer Part Number	<b>NTH027N65S3F-F155</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-NTH027N65S3F-F155
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET N-CH 650V 75A TO247-3
Package	TO-247-3
Data sheet	<b>NTH027N65S3F.pdf</b>
RoHs Status	ROHS3 Compliant



**Get a Quote**

NTH027N65S3F-F155 - onsemi.New Original in Stock. Download Linear Technology NTH027N65S3F-F155 datasheet/specifications on AllelcoElec.com.

Request a quote for NTH027N65S3F-F155, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

NTH027N65S3F-F155 Tech Specifications

NTH027N65S3F-F155 - 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	5V @ 7.5mA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	7690 pF @ 400 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	259 nC @ 10 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	FRFET®, SuperFET® II	FET Feature	-
Rds On (Max) @ Id, Vgs	27.4mOhm @ 35A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	595W (Tc)	Drain to Source Voltage (Vdss)	650 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	75A (Tc)
Package	Tube	Base Product Number	NTH027

## Parts with Similar Specifications

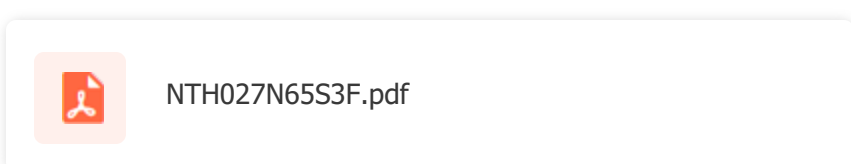
The three parts on the right have similar specifications to onsemi NTH027N65S3F-F155

Product Attribute	NO PICTURE			
Part Number	NTH027N65S3F-F155	NTH4L040N65S3F	NTH4L040N120SC1	NTH4L080N120SC1
Manufacturer	onsemi	onsemi	onsemi	onsemi
Package	Tube	Tube	Tube	Tube
Rds On (Max) @ Id, Vgs	27.4mOhm @ 35A, 10V	40mOhm @ 32.5A, 10V	56mOhm @ 35A, 20V	110mOhm @ 20A, 20V
Vgs(th) (Max) @ Id	5V @ 7.5mA	5V @ 2.1mA	4.3V @ 10mA	4.3V @ 5mA
Base Product Number	NTH027	NTH4L040	NTH4L040	NTH4L080
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	TO-247-3	TO-247-4	TO-247-4	TO-247-4
Drain to Source Voltage (Vdss)	650 V	650 V	1200 V	1200 V
Supplier Device Package	TO-247-3	TO-247-4L	TO-247-4L	TO-247-4L
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	20V	20V
Power Dissipation (Max)	595W (Tc)	446W (Tc)	319W (Tc)	170W (Tc)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Vgs (Max)	±30V	±30V	+25V, -15V	+25V, -15V
FET Feature	-	-	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	SiCFET (Silicon Carbide)	SiCFET (Silicon Carbide)
Gate Charge (Qg) (Max) @ Vgs	259 nC @ 10 V	158 nC @ 10 V	106 nC @ 20 V	56 nC @ 20 V
Current - Continuous Drain (Id) @ 25°C	75A (Tc)	65A (Tc)	58A (Tc)	29A (Tc)
Input Capacitance (Ciss) (Max) @ Vds	7690 pF @ 400 V	5940 pF @ 400 V	1762 pF @ 800 V	1670 pF @ 800 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Series	FRFET®, SuperFET® II	FRFET®, SuperFET® III	-	-

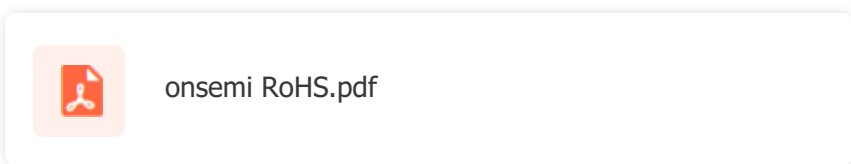
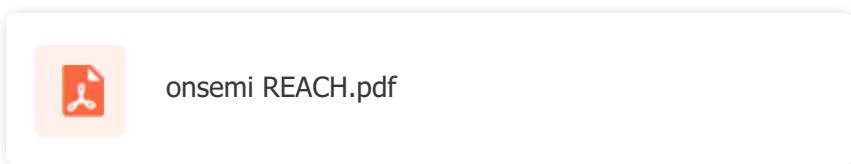
## NTH027N65S3F-F155 Datasheet PDF

Download NTH027N65S3F-F155 pdf datasheets and onsemi documentation for NTH027N65S3F-F155 - onsemi.

### Datasheets



### Environmental Information



### PCN Design/Specification



Dimension/Color Change 24/Feb/2021.pdf

SuperFet Datasheet Chg 30/Jul/2019.pdf

### PCN Packaging


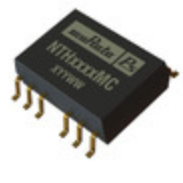




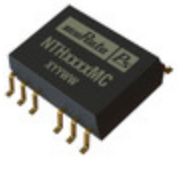



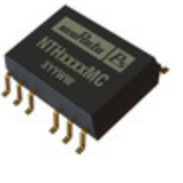
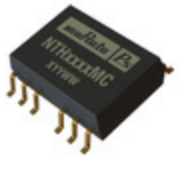





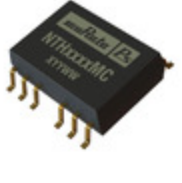
Packing quantity increase 28/Dec/2020.pdf

### PCN Assembly/Origin

Assembly/Test Site 17/May/2023.pdf

## Customers Also Interested in

### Recommended Products

					
<b>NTH4L040N65S3F</b> onsemi MOSFET N-CH 650V 65A TO247-4	<b>NTH1205MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-5V 2W	<b>NTH027N65S3F##QQQ</b>	<b>NTH456AAT</b> Pulse Electronics FIXED IND	<b>NTH03HC3-3.6864MHZ</b> SAR	<b>NTH1212MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-12V 2W
					
<b>NTH0512MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-12V 2W	<b>NTH1209MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-9V 2W	<b>NTH441CT</b> Pulse Electronics	<b>NTH027N65S3F</b> AMI Semiconductor/onsemi	<b>NTH1215MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-15V 2W	<b>NTH0515MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-15V 2W
					
<b>NTH08HB3-30.000</b> Pericom Semiconductor Corp. (Diodes Incorporated)	<b>NTH05HC-32.768</b> N/A	<b>NTH4L040N120SC1</b> onsemi SICFET N-CH 1200V 58A TO247-4	<b>NTH4L080N120SC1</b> onsemi SICFET N-CH 1200V 29A TO247-4	<b>NTH407BDG</b> Pulse Electronics	<b>NTH0505MC</b> Murata Power Solutions Inc. DC DC CONVERTER +/-5V 2W

## 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 -

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### Certifications & Memberships



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