



NVMF55C646NLAFT1G

Manufacturer Part Number	NVMF55C646NLAFT1G
Manufacturer	onsemi
Allelco Part Number	32D-NVMF55C646NLAFT1G
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 60V 20A/93A 5DFN
Package	8-PowerTDFN, 5 Leads
Data sheet	NVMF55C646NL.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

NVMF55C646NLAFT1G - onsemi.New Original in Stock. Download Linear Technology NVMF55C646NLAFT1G datasheet/specifications on AllelcoElec.com.
Request a quote for NVMF55C646NLAFT1G, please send us email: info@allelco.com

Specifications

NVMF55C646NLAFT1G Tech Specifications
NVMF55C646NLAFT1G - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	2V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2164 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	33.7 nC @ 10 V
Supplier Device Package	5-DFN (5x6) (8-SOFL)	FET Type	N-Channel
Series	Automotive, AEC-Q101	FET Feature	-
Rds On (Max) @ Id, Vgs	4.7mOhm @ 50A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	3.7W (Ta), 79W (Tc)	Drain to Source Voltage (Vdss)	60 V
Package / Case	8-PowerTDFN, 5 Leads	Current - Continuous Drain (Id) @ 25°C	20A (Ta), 93A (Tc)
Package	Tape & Reel (TR)	Base Product Number	NVMF55

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi NVMF55C646NLAFT1G

Product Attribute	NO PICTURE			
Part Number	NVMF55C646NLAFT1G	NVMF55C638NLT1G	NVMF55C628NT1G	NVMF55C612NLT3G
Manufacturer	onsemi	onsemi	onsemi	onsemi
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	10V	4.5V, 10V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Vgs(th) (Max) @ Id	2V @ 250µA	2V @ 250µA	4V @ 135µA	2V @ 250µA
Supplier Device Package	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)
Series	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101
Input Capacitance (Ciss) (Max) @ Vds	2164 pF @ 25 V	2880 pF @ 25 V	2630 pF @ 30 V	6660 pF @ 25 V
Gate Charge (Qg) (Max) @ Vgs	33.7 nC @ 10 V	40.7 nC @ 10 V	34 nC @ 10 V	91 nC @ 10 V
Current - Continuous Drain (Id) @ 25°C	20A (Ta), 93A (Tc)	26A (Ta), 133A (Tc)	28A (Ta), 150A (Tc)	36A (Ta), 235A (Tc)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Rds On (Max) @ Id, Vgs	4.7mOhm @ 50A, 10V	3mOhm @ 50A, 10V	3mOhm @ 27A, 10V	1.5mOhm @ 50A, 10V
Package / Case	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss)	60 V	60 V	60 V	60 V
Vgs (Max)	±20V	±20V	±20V	±20V
Power Dissipation (Max)	3.7W (Ta), 79W (Tc)	4W (Ta), 100W (Tc)	3.7W (Ta), 110W (Tc)	3.8W (Ta), 167W (Tc)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Base Product Number	NVMF55	NVMF55	NVMF55	NVMF55
FET Feature	-	-	-	-

NVMF55C646NLAFT1G Datasheet PDF

Download NVMF55C646NLAFT1G pdf datasheets and onsemi documentation for NVMF55C646NLAFT1G - onsemi.

Datasheets

[NVMF55C646NL.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

PCN Packaging

[NVMF55C646NL.pdf](#)



















[NVMF55C646NL.pdf](#)

PCN Assembly/Origin

NTMFS5Cxx 18/May/2023.pdf

Customers Also Interested in

Recommended Products

					
NVMFS5C638NLT1G onsemi MOSFET N-CH 60V 26A/133A 5DFN	NVMFS5C628NT1G onsemi MOSFET N-CH 60V 28A/150A 5DFN	NVMFS5C612NLT3G onsemi MOSFET N-CH 60V 36A/235A 5DFN	NVMFS5C628NLWFT1G onsemi MOSFET N-CH 60V 5DFN	NVMFS5C628NLWFAFT1G onsemi MOSFET N-CH 60V 28A/150A 5DFN	NVMFS5C673NLT3G onsemi MOSFET N-CH 60V 5DFN
					
NVMFS5C645NLAFT1G onsemi MOSFET N-CH 60V 22A/100A 5DFN	NVMFS5C673NLWFAFT1G onsemi MOSFET N-CHANNEL 60V 50A 5DFN	NVMFS5C646NLT1G onsemi MOSFET N-CH 60V 20A/93A 5DFN	NVMFS5C673NLT1G onsemi MOSFET N-CH 60V 5DFN	NVMFS5C645NLT1G onsemi MOSFET N-CH 60V 22A/100A 5DFN	NVMFS5C673NLAFT1G onsemi MOSFET N-CHANNEL 60V 50A 5DFN
					
NVMFS5C638NL AMI Semiconductor/onsemi	NVMFS5C670NWFT1G onsemi MOSFET N-CH 60V 17A/71A 5DFN	NVMFS5C628NLAFT1G onsemi MOSFET N-CH 60V 28A/150A 5DFN	NVMFS5C670NLT1G onsemi MOSFET N-CH 60V 17A/71A 5DFN	NVMFS5C677NLT1G onsemi MOSFET N-CH 60V 11A/36A 5DFN	NVMFS5C670NT1G onsemi MOSFET N-CH 60V 17A/71A 5DFN

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
+00852 9146 4856
-  Email
info@allelco.com

Certifications & Memberships



View More

Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong
Phone: +00852 9146 4856
Fax: +00852 3010 8510
Email: info@Allelco.com