

## NTD20N03L27 Information



For Reference Only

Part Number NTD20N03L27
Manufacturer ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 30V 20A DPAK

Package TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# NTD20N03L27 Specifications

Manufacturer Part Number         NTD20N03L27           Manufacturer         ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         20A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 5V           Vgs(th) (Max) @ Id         2V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         18.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1260pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.75W (Ta), 74W (Tc)           Rds On (Max) @ Id, Vgs         27 mOhm @ 10A, 5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         20A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 5V           Vgs(th) (Max) @ Id         2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         18.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1260pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.75W (Ta), 74W (Tc)           Rds On (Max) @ Id, Vgs         27 mOhm @ 10A, 5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	NTD20N03L27
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         20A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 5V           Vgs(th) (Max) @ Id         2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         18.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1260pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.75W (Ta), 74W (Tc)           Rds On (Max) @ Id, Vgs         27 mOhm @ 10A, 5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	ON Semiconductor
PackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C20A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 5VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1260pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.75W (Ta), 74W (Tc)Rds On (Max) @ Id, Vgs27 mOhm @ 10A, 5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         30V           Current - Continuous Drain (Id) @ 25°C         20A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         4V, 5V           Vgs(th) (Max) @ Id         2V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         18.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1260pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.75W (Ta), 74W (Tc)           Rds On (Max) @ Id, Vgs         27 mOhm @ 10A, 5V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C20A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 5VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1260pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.75W (Ta), 74W (Tc)Rds On (Max) @ Id, Vgs27 mOhm @ 10A, 5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C20A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 5VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1260pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.75W (Ta), 74W (Tc)Rds On (Max) @ Id, Vgs27 mOhm @ 10A, 5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C20A (Ta)Drive Voltage (Max Rds On, Min Rds On)4V, 5VVgs(th) (Max) @ Id2V @ 250μAGate Charge (Qg) (Max) @ Vgs18.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1260pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.75W (Ta), 74W (Tc)Rds On (Max) @ Id, Vgs27 mOhm @ 10A, 5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  20A (Ta)  20A (Ta)  20A (Ta)  20A (Ta)  20A (Ta)  4V, 5V  2V @ 250μA  1260pF @ 25V  +20V  FET Feature  -75°C ~ 10°C (TJ)  Surface Mount  DPAK  TO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  2V @ 250μA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  I.75W (Ta), 74W (Tc)  Rds On (Max) @ Id, Vgs  27 mOhm @ 10A, 5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	30V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  2V @ 250μA  18.9nC @ 10V  11.260pF @ 25V  +20V  -210V  -210V	Current - Continuous Drain (Id) @ 25°C	20A (Ta)
Gate Charge (Qg) (Max) @ Vgs       18.9nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       1260pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       1.75W (Ta), 74W (Tc)         Rds On (Max) @ Id, Vgs       27 mOhm @ 10A, 5V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       DPAK         Package / Case       TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	4V, 5V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  27 mOhm @ 10A, 5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	2V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)1.75W (Ta), 74W (Tc)Rds On (Max) @ Id, Vgs27 mOhm @ 10A, 5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	18.9nC @ 10V
FET Feature -  Power Dissipation (Max) 1.75W (Ta), 74W (Tc)  Rds On (Max) @ Id, Vgs 27 mOhm @ 10A, 5V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	1260pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  27 mOhm @ 10A, 5V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs27 mOhm @ 10A, 5VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAKPackage / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	1.75W (Ta), 74W (Tc)
Mounting Type Surface Mount  Supplier Device Package DPAK Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	27 mOhm @ 10A, 5V
Supplier Device Package  DPAK  Package / Case  DPAK  TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	DPAK
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

### NTD20N03L27 Guarantees



### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## NTD20N03L27 Payment Methods





















### NTD20N03L27 Shipping Methods













If you have any question about NTD20N03L27, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com