



## MTD6N15T4GV Information



For Reference Only

Part Number MTD6N15T4GV
Manufacturer ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 150V 5A 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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## MTD6N15T4GV Specifications

Manufacturer Part Number         MTD6N15T4GV           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)         150V           Current - Continuous Drain (Id) @ 25°C         6A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4.5V @ ImA           Gate Charge (Qg) (Max) @ Vgs         30nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1200pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.25W (Ta), 20W (Tc)           Rds On (Max) @ Id, Vgs         300 mOhm @ 3A, 10V           Operating Temperature         -65°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK-3           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63           Report errors?		
CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ ImAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1200pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.25W (Ta), 20W (Tc)Rds On (Max) @ Id, Vgs300 mOhm @ 3A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAK-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	MTD6N15T4GV
Transistors - FETs, MOSFETs - Single	Manufacturer	ON Semiconductor
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         150V           Current - Continuous Drain (Id) @ 25°C         6A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4.5V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         30nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1200pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1.25W (Ta), 20W (Tc)           Rds On (Max) @ Id, Vgs         300 mOhm @ 3A, 10V           Operating Temperature         -65°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         DPAK-3           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)150VCurrent - Continuous Drain (Id) @ 25°C6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 1mAGate Charge (Qg) (Max) @ Vgs30nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1200pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)1.25W (Ta), 20W (Tc)Rds On (Max) @ Id, Vgs300 mOhm @ 3A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAK-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  150V  Current - Continuous Drain (Id) @ 25°C  6A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4.5V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  30nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  1200pF @ 25V  Vgs (Max)  #20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  300 mOhm @ 3A, 10V  Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  N-Case	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology Drain to Source Voltage (Vdss) 150V Current - Continuous Drain (Id) @ 25°C 6A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 4.5V @ 1mA Gate Charge (Qg) (Max) @ Vgs 30nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1200pF @ 25V Vgs (Max)  **ET Feature - Power Dissipation (Max) 1.25W (Ta), 20W (Tc) Rds On (Max) @ Id, Vgs 300 mOhm @ 3A, 10V Operating Temperature -65°C ~ 150°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  6A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4.5V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  30nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  1200pF @ 25V  Vgs (Max)  #20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  300 mOhm @ 3A, 10V  Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-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  300 mOhm @ 3A, 10V  Operating Temperature  Supplier Device Package  Package / Case  6A (Tc)  6A	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4.5V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  1.25W (Ta), 20W (Tc)  Rds On (Max) @ Id, Vgs  300 mOhm @ 3A, 10V  Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK-3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	150V
Vgs(th) (Max) @ Id       4.5V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       30nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       1200pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       1.25W (Ta), 20W (Tc)         Rds On (Max) @ Id, Vgs       300 mOhm @ 3A, 10V         Operating Temperature       -65°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       DPAK-3         Package / Case       TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	6A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1200pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  300 mOhm @ 3A, 10V  Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK-3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  1200pF @ 25V  Vgs (Max)  E20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  300 mOhm @ 3A, 10V  Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK-3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	4.5V @ 1mA
Vgs (Max) $\pm 20 \text{V}$ FET Feature-Power Dissipation (Max) $1.25 \text{W}$ (Ta), $20 \text{W}$ (Tc)Rds On (Max) @ Id, Vgs $300 \text{ mOhm } @ 3A, 10 \text{V}$ Operating Temperature $-65^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)Mounting TypeSurface MountSupplier Device PackageDPAK-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	30nC @ 10V
FET Feature -  Power Dissipation (Max) 1.25W (Ta), 20W (Tc)  Rds On (Max) @ Id, Vgs 300 mOhm @ 3A, 10V  Operating Temperature -65°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package DPAK-3  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	1200pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  300 mOhm @ 3A, 10V  Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK-3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs300 mOhm @ 3A, 10VOperating Temperature-65°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageDPAK-3Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -65°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  DPAK-3  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	1.25W (Ta), 20W (Tc)
Mounting Type Surface Mount  Supplier Device Package DPAK-3  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	300 mOhm @ 3A, 10V
Supplier Device Package DPAK-3 Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-65°C ~ 150°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	DPAK-3
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### MTD6N15T4GV 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.

### MTD6N15T4GV Payment Methods





















### MTD6N15T4GV Shipping Methods













If you have any question about MTD6N15T4GV, please do not hesitate to contact us!

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