



### **IRFI510G Information**



For Reference Only

Part Number IRFI510G

Manufacturer Vishay Siliconix

**Category** Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 100V 4.5A TO220FP

Package TO-220-3 Full Pack, Isolated Tab

For the pricing/inventory/lead time, please contact

us

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



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# **Certified Quality**

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## **IRFI510G Specifications**

Manufacturer Part Number         IRF1510G           Manufacturer         Vishay Siliconix           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-220-3 Full Pack, Isolated Tab           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         4.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         8.3nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         180pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         27W (Tc)           Rds On (Max) @ Id, Vgs         540 mOhm @ 2.7A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220-3           Package / Case         TO-220-3 Full Pack, Isolated Tab		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-220-3 Full Pack, Isolated Tab Series - FET Type N-Channel Technology Drain to Source Voltage (Vdss) 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 Sdo (Max) @ 1d, Vgs Tet Feature Power Dissipation (Max) Tet Feature Power Dissipation (Max) Through Hole Supplier Device Package Package / Case  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single TO-220-3 Full Pack, Isolated Tab	Manufacturer Part Number	IRFI510G
Package         TO-220-3 Full Pack, Isolated Tab           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         4.5A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         8.3nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         180pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         27W (Tc)           Rds On (Max) @ Id, Vgs         540 mOhm @ 2.7A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220-3           Package / Case         TO-220-3 Full Pack, Isolated Tab	Manufacturer	Vishay Siliconix
PackageTO-220-3 Full Pack, Isolated TabSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C4.5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs8.3nC @ 10VInput Capacitance (Ciss) (Max) @ Vds180pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)27W (Tc)Rds On (Max) @ Id, Vgs540 mOhm @ 2.7A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220-3Package / CaseTO-220-3 Full Pack, Isolated Tab	Category	Discrete Semiconductor Products
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FET Type  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  4.5A (Tc)  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  Jenus Capacitance  Through Hole  Supplier Device Package  TO-220-3 Full Pack, Isolated Tab	Package	TO-220-3 Full Pack, Isolated Tab
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C4.5A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs8.3nC @ 10VInput Capacitance (Ciss) (Max) @ Vds180pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)27W (Tc)Rds On (Max) @ Id, Vgs540 mOhm @ 2.7A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220-3Package / CaseTO-220-3 Full Pack, Isolated Tab	Series	-
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Vgs(th) (Max) @ Id	Current - Continuous Drain (Id) @ 25°C	4.5A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Jemperature  Through Hole  Supplier Device Package  TO-220-3  Full Pack, Isolated Tab	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  180pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  540 mOhm @ 2.7A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220-3  Package / Case  TO-220-3 Full Pack, Isolated Tab	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)27W (Tc)Rds On (Max) @ Id, Vgs540 mOhm @ 2.7A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220-3Package / CaseTO-220-3 Full Pack, Isolated Tab	Gate Charge (Qg) (Max) @ Vgs	8.3nC @ 10V
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Rds On (Max) @ Id, Vgs540 mOhm @ 2.7A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220-3Package / CaseTO-220-3 Full Pack, Isolated Tab	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220-3  Package / Case  TO-220-3 Full Pack, Isolated Tab	Power Dissipation (Max)	27W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220-3 Package / Case TO-220-3 Full Pack, Isolated Tab	Rds On (Max) @ Id, Vgs	540 mOhm @ 2.7A, 10V
Supplier Device Package TO-220-3 Package / Case TO-220-3 Full Pack, Isolated Tab	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-220-3 Full Pack, Isolated Tab	Mounting Type	Through Hole
	Supplier Device Package	TO-220-3
Report errors?	Package / Case	TO-220-3 Full Pack, Isolated Tab
		Report errors?

### **IRFI510G 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.

### **IRFI510G Payment Methods**





















### **IRFI510G Shipping Methods**













If you have any question about IRFI510G, please do not hesitate to contact us!

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