



### **IXFK250N10P Information**



For Reference Only

Part Number IXFK250N10P

Manufacturer IXYS

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 100V 250A TO-264

Package TO-264-3, TO-264AA

For the pricing/inventory/lead time, please contact

us

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



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# **IXFK250N10P Specifications**

Manufacturer Part Number         IXFK250N10P           Manufacturer         IXYS           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-264-3, TO-264AA           Series         HiPerFET?, PolarP2?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         250A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         205nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         16000pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1250W (Tc)           Rds On (Max) @ Id, Vgs         6.5 mOhm @ 50A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264AA (IXFK)           Package / Case         TO-264A, TO-264AA		
Category  Discrete Semiconductor Products  Transistors - FETs, MOSFETs - Single  Package  TO-264-3, TO-264AA  Series  HiPerFET?, PolarP2?  FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  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  Diput Capacitance (Ciss) (Max) @ Vds  16000pF @ 25V  Vgs (Max)  +20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Charles  1250W (Tc)  Rds On (Max) @ Id, Vgs  6.5 mOhm @ 50A, 10V  Operating Temperature  Joechage (Package  To-264AA (IXFK)  Package / Case	Manufacturer Part Number	IXFK250N10P
Package         TO-264-3, TO-264AA           Series         HiPerFET?, PolarP2?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         250A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ ImA           Gate Charge (Qg) (Max) @ Vgs         205nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         16000pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1250W (Tc)           Rds On (Max) @ Id, Vgs         6.5 mOhm @ 50A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264AA (IXFK)           Package / Case         TO-264AA	Manufacturer	IXYS
Package         TO-264-3, TO-264AA           Series         HiPerFET?, PolarP2?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         250A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         205nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         16000pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1250W (Tc)           Rds On (Max) @ Id, Vgs         6.5 mOhm @ 50A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264AA (IXFK)           Package / Case         TO-264AA	Category	Discrete Semiconductor Products
Series HiPerFET?, PolarP2?  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 100V  Current - Continuous Drain (Id) @ 25°C 250A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 10V  Vgs(th) (Max) @ Id 5V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 205nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 16000pF @ 25V  Vgs (Max) ±20V  FET Feature - Power Dissipation (Max) 1250W (Tc)  Rds On (Max) @ Id, Vgs 6.5 mOhm @ 50A, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-264AA (IXFK)  Package / Case		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 250A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 5V @ 1mA Gate Charge (Qg) (Max) @ Vgs 205nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 16000pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 1250W (Tc) Rds On (Max) @ Id, Vgs 6.5 mOhm @ 50A, 10V Operating Temperature 55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package 70-264AA (IXFK) Package / Case	Package	TO-264-3, TO-264AA
Technology Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 250A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 5V @ 1mA Gate Charge (Qg) (Max) @ Vgs 1000pF @ 25V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) 16000pF @ 25V Vgs (Max)  FET Feature - Power Dissipation (Max) 1250W (Tc) Rds On (Max) @ Id, Vgs 6.5 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264AA (IXFK) Package / Case	Series	HiPerFET?, PolarP2?
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  250A (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  Foreign Temperature  Supplier Device Package  TO-264AA (IXFK)  Package / Case  Poive Voltage (Vdss)  100V  250A (Tc)  10V  10V  10V  10V  10V  10V  10V  10	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Sty @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 mOhm @ 50A, 10V  Operating Temperature  Supplier Device Package  TO-264AA (IXFK)  Package / Case  Power Dissipation (Id) @ 25°C  250A (Tc)  250A (Tc)  10V  10V  10V  1000pF @ 25V  25V  25V  25V  25V  25V  25V  25V	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Sty @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  **ET Feature**  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 mOhm @ 50A, 10V  Operating Temperature  **Operating Temperature**  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  **To-264AA	Drain to Source Voltage (Vdss)	100V
Vgs(th) (Max) @ Id       5V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       205nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       16000pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       1250W (Tc)         Rds On (Max) @ Id, Vgs       6.5 mOhm @ 50A, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Through Hole         Supplier Device Package       TO-264AA (IXFK)         Package / Case       TO-264-3, TO-264AA	Current - Continuous Drain (Id) @ 25°C	250A (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  Jenus Hole  Supplier Device Package  TO-264-A, TO-264AA  TO-264-A, TO-264AA	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  16000pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  1250W (Tc)  Rds On (Max) @ Id, Vgs  6.5 mOhm @ 50A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  TO-264-3, TO-264AA	Vgs(th) (Max) @ Id	5V @ 1mA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)1250W (Tc)Rds On (Max) @ Id, Vgs6.5 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264AA (IXFK)Package / CaseTO-264-3, TO-264AA	Gate Charge (Qg) (Max) @ Vgs	205nC @ 10V
FET Feature - Power Dissipation (Max) 1250W (Tc) Rds On (Max) @ Id, Vgs 6.5 mOhm @ 50A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264AA (IXFK) Package / Case TO-264-3, TO-264AA	Input Capacitance (Ciss) (Max) @ Vds	16000pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 mOhm @ 50A, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  TO-264-3, TO-264AA	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs6.5 mOhm @ 50A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264AA (IXFK)Package / CaseTO-264-3, TO-264AA	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  TO-264-3, TO-264AA	Power Dissipation (Max)	1250W (Tc)
Mounting Type Through Hole Supplier Device Package TO-264AA (IXFK) Package / Case TO-264-3, TO-264AA	Rds On (Max) @ Id, Vgs	6.5 mOhm @ 50A, 10V
Supplier Device Package TO-264AA (IXFK) Package / Case TO-264-3, TO-264AA	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-264-3, TO-264AA	Mounting Type	Through Hole
	Supplier Device Package	TO-264AA (IXFK)
Report errors?	Package / Case	TO-264-3, TO-264AA
		Report errors?

#### **IXFK250N10P 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.

# **IXFK250N10P Payment Methods**

































If you have any question about IXFK250N10P, please do not hesitate to contact us!

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