



## **IXFK180N25T Information**



For Reference Only

Part Number IXFK180N25T

Manufacturer IXYS

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 250V 180A 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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# **Certified Quality**

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## **IXFK180N25T Specifications**

Manufacturer Part Number         IXFK180N25T           Manufacturer         IXYS           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-264-3, TO-264AA           Series         GigaMOS?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         250V           Current - Continuous Drain (Id) @ 25°C         180A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 8mA           Gate Charge (Qg) (Max) @ Vgs         345nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         28000pF @ 25V           Vgs (Max)         28000pF @ 25V           Vgs (Max)         1390W (Tc)           Rds On (Max) @ Id, Vgs         12.9 mOhm @ 60A, 10V           Operating Temperature         -55°C ~ 150°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  GigaMOS?  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  Input Capacitance (Ciss) (Max) @ Vds  28000pF @ 25V  Vgs (Max)  ### 20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  1390W (Tc)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  #### 35°C ~ 150°C (TJ)  Mounting Type  Supplier Device Package  TO-264AA (IXFK)  Package / Case	Manufacturer Part Number	IXFK180N25T
Package         TO-264-3, TO-264AA           Series         GigaMOS?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         250V           Current - Continuous Drain (Id) @ 25°C         180A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 8mA           Gate Charge (Qg) (Max) @ Vgs         345nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         28000pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1390W (Tc)           Rds On (Max) @ Id, Vgs         12.9 mOhm @ 60A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264AA (IXFK)           Package / Case         TO-264AA, (IXFK)	Manufacturer	IXYS
Package         TO-264-3, TO-264AA           Series         GigaMOS?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         250V           Current - Continuous Drain (Id) @ 25°C         180A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 8mA           Gate Charge (Qg) (Max) @ Vgs         345nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         28000pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1390W (Tc)           Rds On (Max) @ Id, Vgs         12.9 mOhm @ 60A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264AA (IXFK)           Package / Case         TO-264AA, TO-264AA	Category	Discrete Semiconductor Products
Series         GigaMOS?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         250V           Current - Continuous Drain (Id) @ 25°C         180A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5V @ 8mA           Gate Charge (Qg) (Max) @ Vgs         345nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         28000pF @ 25V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         1390W (Tc)           Rds On (Max) @ Id, Vgs         12.9 mOhm @ 60A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-264AA (IXFK)           Package / Case         TO-264-3, TO-264AA		Transistors - FETs, MOSFETs - Single
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  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  #20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  Mounting Type  Supplier Device Package  TO-264AA (IXFK)  Package / Case	Package	TO-264-3, TO-264AA
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  180A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  SV @ 8mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  **EUV**  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  Supplier Device Package  TO-264AA (IXFK)  Package / Case  **Carrent Mounting Type  Through Hole  TO-264AA, TO-264AA	Series	GigaMOS?
Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  SV @ 8mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Supplier Device Package  TO-264AA (IXFK)  Package / Case  180A (Tc)	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  SV @ 8mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  **E20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  Supplier Device Package  TO-264AA (IXFK)  Package / Case  180A (Tc)  180C (Tc)  1	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  5V @ 8mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  **ET Feature**  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  **Operating Temperature**  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  **To-264AA	Drain to Source Voltage (Vdss)	250V
Vgs(th) (Max) @ Id       5V @ 8mA         Gate Charge (Qg) (Max) @ Vgs       345nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       28000pF @ 25V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       1390W (Tc)         Rds On (Max) @ Id, Vgs       12.9 mOhm @ 60A, 10V         Operating Temperature       -55°C ~ 150°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	180A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  28000pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  28000pF @ 25V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  1390W (Tc)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  TO-264-3, TO-264AA	Vgs(th) (Max) @ Id	5V @ 8mA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)1390W (Tc)Rds On (Max) @ Id, Vgs12.9 mOhm @ 60A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264AA (IXFK)Package / CaseTO-264-3, TO-264AA	Gate Charge (Qg) (Max) @ Vgs	345nC @ 10V
FET Feature - 1390W (Tc) Rds On (Max) @ Id, Vgs 12.9 mOhm @ 60A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264AA (IXFK) Package / Case TO-264-3, TO-264AA	Input Capacitance (Ciss) (Max) @ Vds	28000pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  -55°C ~ 150°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, Vgs  12.9 mOhm @ 60A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  TO-264-3, TO-264AA	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-264AA (IXFK)  Package / Case  TO-264-3, TO-264AA	Power Dissipation (Max)	1390W (Tc)
Mounting Type Through Hole Supplier Device Package TO-264AA (IXFK) Package / Case TO-264-3, TO-264AA	Rds On (Max) @ Id, Vgs	12.9 mOhm @ 60A, 10V
Supplier Device Package TO-264AA (IXFK) Package / Case TO-264-3, TO-264AA	Operating Temperature	-55°C ~ 150°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?

#### **IXFK180N25T 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.

### **IXFK180N25T Payment Methods**



















### **IXFK180N25T Shipping Methods**













If you have any question about IXFK180N25T, please do not hesitate to contact us!

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