



IXTK120N25P Information

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For Reference Only

Part Number IXTK120N25P

Manufacturer IXYS

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

Description MOSFET N-CH 250V 120A 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

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









IXTK120N25P Specifications

Manufacturer Part Number IXTK120N25P Manufacturer IXYS Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-264-3, TO-264AA Series PolarHT? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 250V Current - Continuous Drain (Id) @ 25°C 120A (Tc) Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 5V @ 500µA Gate Charge (Qg) (Max) @ Vgs 185nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 8000pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 700W (Tc) Rds On (Max) @ Id, Vgs 24 mOhm @ 60A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA		
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FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)250VCurrent - Continuous Drain (Id) @ 25°C120A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 500μAGate Charge (Qg) (Max) @ Vgs185nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)700W (Tc)Rds On (Max) @ Id, Vgs24 mOhm @ 60A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	Package	TO-264-3, TO-264AA
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)250VCurrent - Continuous Drain (Id) @ 25°C120A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 500μAGate Charge (Qg) (Max) @ Vgs185nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)700W (Tc)Rds On (Max) @ Id, Vgs24 mOhm @ 60A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	Series	PolarHT?
Drain to Source Voltage (Vdss)250 VCurrent - Continuous Drain (Id) @ 25°C120 A (Tc)Drive Voltage (Max Rds On, Min Rds On)10 VVgs(th) (Max) @ Id5 V @ 500 μ AGate Charge (Qg) (Max) @ Vgs185n C @ 10 VInput Capacitance (Ciss) (Max) @ Vds8000 p F @ 25 VVgs (Max)±20 VFET Feature-Power Dissipation (Max)700 W (Tc)Rds On (Max) @ Id, Vgs24 m Ohm @ 60 A, 10 VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C120A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 500μAGate Charge (Qg) (Max) @ Vgs185nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)700W (Tc)Rds On (Max) @ Id, Vgs24 mOhm @ 60A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5V @ 500μAGate Charge (Qg) (Max) @ Vgs185nC @ 10VInput Capacitance (Ciss) (Max) @ Vds8000pF @ 25VVgs (Max)±20VFET Feature-Power Dissipation (Max)700W (Tc)Rds On (Max) @ Id, Vgs24 mOhm @ 60A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	Drain to Source Voltage (Vdss)	250V
Vgs(th) (Max) @ Id 5V @ 500μA Gate Charge (Qg) (Max) @ Vgs 185nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 8000pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 700W (Tc) Rds On (Max) @ Id, Vgs 24 mOhm @ 60A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA	Current - Continuous Drain (Id) @ 25°C	120A (Tc)
Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds 8000pF @ 25V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 24 mOhm @ 60A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds 8000pF @ 25V Vgs (Max) ET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 24 mOhm @ 60A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA	Vgs(th) (Max) @ Id	5V @ 500μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)700W (Tc)Rds On (Max) @ Id, Vgs24 mOhm @ 60A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	Gate Charge (Qg) (Max) @ Vgs	185nC @ 10V
FET Feature - To-264-AA	Input Capacitance (Ciss) (Max) @ Vds	8000pF @ 25V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 24 mOhm @ 60A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs24 mOhm @ 60A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-264 (IXTK)Package / CaseTO-264-3, TO-264AA	FET Feature	-
Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA	Power Dissipation (Max)	700W (Tc)
Mounting Type Through Hole Supplier Device Package TO-264 (IXTK) Package / Case TO-264-3, TO-264AA	Rds On (Max) @ Id, Vgs	24 mOhm @ 60A, 10V
Supplier Device Package TO-264 (IXTK) 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-264 (IXTK)
Report errors?	Package / Case	TO-264-3, TO-264AA
		Report errors?

IXTK120N25P 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.

IXTK120N25P Payment Methods





















IXTK120N25P Shipping Methods













If you have any question about IXTK120N25P, please do not hesitate to contact us!

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