



### **IXTQ102N20T Information**

Part Number IXTQ102N20T

Manufacturer IXYS

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

MOSFET N-CH 200V 102A TO3P **Description** 

TO-3P-3, SC-65-3 **Package** 

For the pricing/inventory/lead time, please contact

Website: https://www.heisener.com For Reference Only

E-mail: salesdept@heisener.com



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### **Certified Quality**

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# **IXTQ102N20T Specifications**

Manufacturer Part Number         IXTQ102N20T           Manufacturer         IXYS           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-3P-3, SC-65-3           Series         TrenchHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         200V           Current - Continuous Drain (Id) @ 25°C         102A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         4.5V @ ImA           Gate Charge (Qg) (Max) @ Vgs         114nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6800pF @ 25V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         750W (Tc)           Rds On (Max) @ Id, Vgs         23 mOhm @ 500mA, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-3P-3, SC-65-3           Package / Case         TO-3P-3, SC-65-3		
Category  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  TO-3P-3, SC-65-3  Series  TrenchHV?  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  IllanC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  (8800pF @ 25V  Vgs (Max)  -  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Dysalogy  To-3P & CT-3P-3, SC-65-3  Pockage / Case  TO-3P-3, SC-65-3	Manufacturer Part Number	IXTQ102N20T
Package         TO-3P-3, SC-65-3           Series         TrenchHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         200V           Current - Continuous Drain (Id) @ 25°C         102A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         4.5V @ ImA           Gate Charge (Qg) (Max) @ Vgs         114nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6800pF @ 25V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         750W (Tc)           Rds On (Max) @ Id, Vgs         23 mOhm @ 500mA, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-3P           Package / Case         TO-3P-3, SC-65-3	Manufacturer	IXYS
Package         TO-3P-3, SC-65-3           Series         TrenchHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         200V           Current - Continuous Drain (Id) @ 25°C         102A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         4.5V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         114nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6800pF @ 25V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         750W (Tc)           Rds On (Max) @ Id, Vgs         23 mOhm @ 500mA, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-3P           Package / Case         TO-3P-3, SC-65-3	Category	Discrete Semiconductor Products
Series         TrenchHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         200V           Current - Continuous Drain (Id) @ 25°C         102A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         -           Vgs(th) (Max) @ Id         4.5V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         114nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6800pF @ 25V           Vgs (Max)         -           FET Feature         -           Power Dissipation (Max)         750W (Tc)           Rds On (Max) @ Id, Vgs         23 mOhm @ 500mA, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-3P           Package / Case         TO-3P-3, SC-65-3		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 200V Current - Continuous Drain (Id) @ 25°C 102A (Tc) Drive Voltage (Max Rds On, Min Rds On) - Vgs(th) (Max) @ Id 4.5V @ ImA Gate Charge (Qg) (Max) @ Vgs 114nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6800pF @ 25V Vgs (Max) - FET Feature - Power Dissipation (Max) 750W (Tc) Rds On (Max) @ Id, Vgs 23 mOhm @ 500mA, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Through Hole Supplier Device Package TO-3P Package / Case To 500 Through Hole	Package	TO-3P-3, SC-65-3
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  Operating Temperature  Augustance (Max)  MOSFET (Metal Oxide)  102A (Tc)  102A (Tc)  102A (Tc)  102A (Tc)  104B  4.5V @ 1mA  114nC @ 10V  6800pF @ 25V  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  750W (Tc)  Rds On (Max) @ Id, Vgs  23 mOhm @ 500mA, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-3P  Package / Case  TO-3P-3, SC-65-3	Series	TrenchHV?
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  Operating Temperature  Supplier Device Package  Package / Case  200V  102A (Tc)  102	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4.5V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  114nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  -  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  23 mOhm @ 500mA, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  Package / Case  TO-3P-  TO-3P-3, SC-65-3	Drain to Source Voltage (Vdss)	200V
Vgs(th) (Max) @ Id       4.5V @ 1mA         Gate Charge (Qg) (Max) @ Vgs       114nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       6800pF @ 25V         Vgs (Max)       -         FET Feature       -         Power Dissipation (Max)       750W (Tc)         Rds On (Max) @ Id, Vgs       23 mOhm @ 500mA, 10V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Through Hole         Supplier Device Package       TO-3P         Package / Case       TO-3P-3, SC-65-3	Current - Continuous Drain (Id) @ 25°C	102A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  6800pF @ 25V  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  23 mOhm @ 500mA, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-3P  Package / Case  TO-3P-3, SC-65-3	Drive Voltage (Max Rds On, Min Rds On)	-
Input Capacitance (Ciss) (Max) @ Vds  6800pF @ 25V  Vgs (Max)  - FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  23 mOhm @ 500mA, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-3P  Package / Case  TO-3P-3, SC-65-3	Vgs(th) (Max) @ Id	4.5V @ 1mA
Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  23 mOhm @ 500mA, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-3P  Package / Case  TO-3P-3, SC-65-3	Gate Charge (Qg) (Max) @ Vgs	114nC @ 10V
FET Feature - T50W (Tc)  Rds On (Max) @ Id, Vgs 23 mOhm @ 500mA, 10V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Through Hole  Supplier Device Package TO-3P  Package / Case TO-3P-3, SC-65-3	Input Capacitance (Ciss) (Max) @ Vds	6800pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  23 mOhm @ 500mA, 10V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-3P  Package / Case  TO-3P-3, SC-65-3	Vgs (Max)	-
Rds On (Max) @ Id, Vgs23 mOhm @ 500mA, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-3PPackage / CaseTO-3P-3, SC-65-3	FET Feature	-
Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-3P  Package / Case  TO-3P-3, SC-65-3	Power Dissipation (Max)	750W (Tc)
Mounting Type Through Hole Supplier Device Package TO-3P Package / Case TO-3P-3, SC-65-3	Rds On (Max) @ Id, Vgs	23 mOhm @ 500mA, 10V
Supplier Device Package TO-3P Package / Case TO-3P-3, SC-65-3	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-3P-3, SC-65-3	Mounting Type	Through Hole
	Supplier Device Package	TO-3P
Report errors?	Package / Case	TO-3P-3, SC-65-3
		Report errors?

### **IXTQ102N20T 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.

### **IXTQ102N20T Payment Methods**



















## **IXTQ102N20T Shipping Methods**













If you have any question about IXTQ102N20T, please do not hesitate to contact us!

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