



### **IXTT16N10D2 Information**

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For Reference Only

Part Number IXTT16N10D2

Manufacturer IXYS

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 100V 16A TO-268

Package TO-268-3, D3Pak (2 Leads + Tab), TO-268AA

For the pricing/inventory/lead time, please contact

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# **IXTT16N10D2 Specifications**

| Manufacturer Part Number         IXTT16N10D2           Manufacturer         IXYS           Category         Discrete Semiconductor Products           Fackage         TC-268-3, D3Pak (2 Leads + Tab), TO-268AA           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         16A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         0V           Vgs(th) (Max) @ Id         -           Gate Charge (Qg) (Max) @ Vgs         225nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         5700pF @ 25V           Vgs (Max)         ±20V           FET Feature         Depletion Mode           Power Dissipation (Max)         830W (Tc)           Rds On (Max) @ Id, Vgs         64 mOhm @ 8A, 0V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-268           Package / Case         TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  |  |   |
|--|--|---|
| Category  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  Package  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  Series  - FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  100V  Current - Continuous Drain (Id) @ 25°C  16A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  1put Capacitance (Ciss) (Max) @ Vds  5700pF @ 25V  Vgs (Max)  ±20V  FET Feature  Depletion Mode  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  64 mOhm @ 8A, 0V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-268  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Manufacturer Part Number               | IXTT16N10D2                               |
| Package         TO-268-3, D3Pak (2 Leads + Tab), TO-268AA           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         16A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         0V           Vgs(th) (Max) @ Id         -           Gate Charge (Qg) (Max) @ Vgs         225nC @ 5V           Input Capacitance (Ciss) (Max) @ Vds         5700pF @ 25V           Vgs (Max)         ±20V           FET Feature         Depletion Mode           Power Dissipation (Max)         830W (Tc)           Rds On (Max) @ Id, Vgs         64 mOhm @ 8A, 0V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-268           Package / Case         TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Manufacturer                           | IXYS                                      |
| Package TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 16A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs 1700pF @ 25V Input Capacitance (Ciss) (Max) @ Vds 5700pF @ 25V Vgs (Max) FET Feature Depletion Mode Power Dissipation (Max) Rds On (Max) @ Id, Vgs 64 mOhm @ 8A, 0V Operating Temperature Surface Mount Supplier Device Package Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Category                               | Discrete Semiconductor Products           |
| Series - M-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 100V  Current - Continuous Drain (Id) @ 25°C 16A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 0V  Vgs(th) (Max) @ Id - Charge (Qg) (Max) @ Vgs 225nC @ 5V  Input Capacitance (Ciss) (Max) @ Vds 5700pF @ 25V  Vgs (Max) ±20V  FET Feature Depletion Mode  Power Dissipation (Max) 830W (Tc)  Rds On (Max) @ Id, Vgs 64 mOhm @ 8A, 0V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package 7C-268  Package / Case TOOLOGA ASSILLATION (Package) TO-268-A   |  | Transistors - FETs, MOSFETs - Single      |
| FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  100V  Current - Continuous Drain (Id) @ 25°C  16A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  1nput Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Depletion Mode  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  64 mOhm @ 8A, 0V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  N-Channel  NOSFET (Metal Oxide)  100V  ANOSFET (Metal Oxide)  100V  ANOSFET (Metal Oxide)  100V  16A (Tc)  | Package                                | TO-268-3, D3Pak (2 Leads + Tab), TO-268AA |
| Technology  Drain to Source Voltage (Vdss)  100V  Current - Continuous Drain (Id) @ 25°C  16A (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)  **Equation of the state of | Series                                 | -   |
| Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  16A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  5700pF @ 25V  Vgs (Max)  ±20V  FET Feature  Depletion Mode  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | FET Type                               | N-Channel                                 |
| Current - Continuous Drain (Id) @ 25°C 16A (Tc)  Drive Voltage (Max Rds On, Min Rds On) 0V  Vgs(th) (Max) @ Id - Gate Charge (Qg) (Max) @ Vgs 225nC @ 5V  Input Capacitance (Ciss) (Max) @ Vds 5700pF @ 25V  Vgs (Max) ±20V  FET Feature Depletion Mode  Power Dissipation (Max) 830W (Tc)  Rds On (Max) @ Id, Vgs 64 mOhm @ 8A, 0V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-268  Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Technology                             | MOSFET (Metal Oxide)                      |
| 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  Depletion Mode  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  64 mOhm @ 8A, 0V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Drain to Source Voltage (Vdss)         | 100V                                      |
| Vgs(th) (Max) @ Id       -         Gate Charge (Qg) (Max) @ Vgs       225nC @ 5V         Input Capacitance (Ciss) (Max) @ Vds       5700pF @ 25V         Vgs (Max)       ±20V         FET Feature       Depletion Mode         Power Dissipation (Max)       830W (Tc)         Rds On (Max) @ Id, Vgs       64 mOhm @ 8A, 0V         Operating Temperature       -55°C ~ 175°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       TO-268         Package / Case       TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Current - Continuous Drain (Id) @ 25°C | 16A (Tc)                                  |
| Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  5700pF @ 25V  Vgs (Max)  ±20V  FET Feature  Depletion Mode  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  64 mOhm @ 8A, 0V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Drive Voltage (Max Rds On, Min Rds On) | 0V  |
| Input Capacitance (Ciss) (Max) @ Vds  5700pF @ 25V  Vgs (Max)  ±20V  FET Feature  Depletion Mode  Power Dissipation (Max)  830W (Tc)  Rds On (Max) @ Id, Vgs  64 mOhm @ 8A, 0V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-268  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Vgs(th) (Max) @ Id                     | -   |
| Vgs (Max)±20VFET FeatureDepletion ModePower Dissipation (Max)830W (Tc)Rds On (Max) @ Id, Vgs64 mOhm @ 8A, 0VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-268Package / CaseTO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Gate Charge (Qg) (Max) @ Vgs           | 225nC @ 5V                                |
| FET Feature Depletion Mode  Power Dissipation (Max) 830W (Tc)  Rds On (Max) @ Id, Vgs 64 mOhm @ 8A, 0V  Operating Temperature -55°C ~ 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-268  Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Input Capacitance (Ciss) (Max) @ Vds   | 5700pF @ 25V                              |
| Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  64 mOhm @ 8A, 0V  Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-268  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Vgs (Max)                              | ±20V                                      |
| Rds On (Max) @ Id, Vgs 64 mOhm @ 8A, 0V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-268 Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | FET Feature                            | Depletion Mode                            |
| Operating Temperature  -55°C ~ 175°C (TJ)  Mounting Type  Surface Mount  TO-268  Package / Case  TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Power Dissipation (Max)                | 830W (Tc)                                 |
| Mounting Type Surface Mount Supplier Device Package TO-268 Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Rds On (Max) @ Id, Vgs                 | 64 mOhm @ 8A, 0V                          |
| Supplier Device Package TO-268 Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA  | Operating Temperature                  | -55°C ~ 175°C (TJ)                        |
| Package / Case TO-268-3, D3Pak (2 Leads + Tab), TO-268AA   | Mounting Type                          | Surface Mount                             |
|  | Supplier Device Package                | TO-268                                    |
| Report errors?   | Package / Case                         | TO-268-3, D3Pak (2 Leads + Tab), TO-268AA |
|  |  | Report errors?                            |

### **IXTT16N10D2** 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.

## **IXTT16N10D2 Payment Methods**





















### **IXTT16N10D2 Shipping Methods**













If you have any question about IXTT16N10D2, please do not hesitate to contact us!

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