



### **IXTY1R6N50P Information**



For Reference Only

Part Number IXTY1R6N50P

Manufacturer IXYS

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 500V 1.6A DPAK

Package TO-252-3, DPak (2 Leads + Tab), SC-63

For the pricing/inventory/lead time, please contact

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



Request a Quote

# **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.









# **IXTY1R6N50P Specifications**

Manufacturer Part Number         IXTY IR6N50P           Manufacturer         IXYS           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         PolarHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         1.6A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5.5V @ 25µA           Gate Charge (Qg) (Max) @ Vgs         3.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         140F @ 25V           Vgs (Max)         ± 30V           FET Feature         -           Power Dissipation (Max)         43W (Tc)           Rds On (Max) @ Id, Vgs         6.5 Ohm @ 500mA, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         PolarHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         1.6A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5.5V @ 25μA           Gate Charge (Qg) (Max) @ Vgs         3.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         140pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         43W (Tc)           Rds On (Max) @ Id, Vgs         6.5 Ohm @ 500mA, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	IXTY1R6N50P
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         PolarHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         1.6A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5.5V @ 25μA           Gate Charge (Qg) (Max) @ Vgs         3.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         140pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         43W (Tc)           Rds On (Max) @ Id, Vgs         6.5 Ohm @ 500mA, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	IXYS
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         PolarHV?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         1.6A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         5.5V @ 25μA           Gate Charge (Qg) (Max) @ Vgs         3.9nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         140pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         43W (Tc)           Rds On (Max) @ Id, Vgs         6.5 Ohm @ 500mA, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
SeriesPolarHV?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C1.6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5.5V @ 25μAGate Charge (Qg) (Max) @ Vgs3.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)43W (Tc)Rds On (Max) @ Id, Vgs6.5 Ohm @ 500mA, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type  Rechnology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  1.6A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  S.5V @ 25µA  Gate Charge (Qg) (Max) @ Vgs  140pF @ 25V  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 Ohm @ 500mA, 10V  Operating Temperature  Supplier Device Package  Package / Case  N-Channel  N-Channel  MOSFET (Metal Oxide)  MOSFET (Metal Oxide)  AMOSFET (Metal Oxide)  1.6A (Tc)  1.6A	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  1.6A (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  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  Package / Case  MOSFET (Metal Oxide)  500V  MOSFET (Metal Oxide)  500V  600  500V  600  600	Series	PolarHV?
Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C1.6A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5.5V @ 25μAGate Charge (Qg) (Max) @ Vgs3.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)43W (Tc)Rds On (Max) @ Id, Vgs6.5 Ohm @ 500mA, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  S.5V @ 25µA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 Ohm @ 500mA, 10V  Operating Temperature  Supplier Device Package  Package / Case  1.6A (Tc)  1	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id5.5V @ 25μAGate Charge (Qg) (Max) @ Vgs3.9nC @ 10VInput Capacitance (Ciss) (Max) @ Vds140pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)43W (Tc)Rds On (Max) @ Id, Vgs6.5 Ohm @ 500mA, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	500V
Vgs(th) (Max) @ Id       5.5V @ 25μA         Gate Charge (Qg) (Max) @ Vgs       3.9nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       140pF @ 25V         Vgs (Max)       ±30V         FET Feature       -         Power Dissipation (Max)       43W (Tc)         Rds On (Max) @ Id, Vgs       6.5 Ohm @ 500mA, 10V         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Surface Mount         Supplier Device Package       TO-252, (D-Pak)         Package / Case       TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	1.6A (Tc)
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  140pF @ 25V  Vgs (Max)  ±30V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 Ohm @ 500mA, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  140pF @ 25V  Vgs (Max)  ET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 Ohm @ 500mA, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	5.5V @ 25µA
Vgs (Max)±30VFET Feature-Power Dissipation (Max)43W (Tc)Rds On (Max) @ Id, Vgs6.5 Ohm @ 500mA, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	3.9nC @ 10V
FET Feature - AW (Tc)  Power Dissipation (Max) 43W (Tc)  Rds On (Max) @ Id, Vgs 6.5 Ohm @ 500mA, 10V  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Surface Mount  Supplier Device Package TO-252, (D-Pak)  Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	140pF @ 25V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  6.5 Ohm @ 500mA, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±30V
Rds On (Max) @ Id, Vgs6.5 Ohm @ 500mA, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  TO-252, (D-Pak)  Package / Case  TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	43W (Tc)
Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	6.5 Ohm @ 500mA, 10V
Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	TO-252, (D-Pak)
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

#### **IXTY1R6N50P** 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.

# **IXTY1R6N50P Payment Methods**



















### **IXTY1R6N50P Shipping Methods**













If you have any question about IXTY1R6N50P, please do not hesitate to contact us!

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