



### **APT33N90JCU2 Information**



For Reference Only

Part Number APT33N90JCU2

Manufacturer Microsemi Corporation

**Category** Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 900V 33A SOT227

Package SOT-227-4, miniBLOC

For the pricing/inventory/lead time, please contact

us

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.









# **APT33N90JCU2 Specifications**

Manufacturer Part Number  Manufacturer  Microsemi Corporation  Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single  Package  SOT-227-4, miniBLOC  Series  CoolMOS?  FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  Pure 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  Super Junction  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  Mosfer (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227-4, miniBLOC  Report errors?		
Category  Discrete Semiconductor Products  Transistors - FETs, MOSFETs - Single  Package  SOT-227-4, miniBLOC  Series  CoolMOS?  FET Type  N-Channel  Technology  Drain to Source Voltage (Vdss)  Ourrent - Continuous Drain (Id) @ 25°C  33A  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  #### 20V  #### 5 Evature  Super Junction  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  #### 40°C ~ 150°C (TJ)  Mounting Type  Supplier Device Package  Package / Case  #### 507-227-4, miniBLOC	Manufacturer Part Number	APT33N90JCU2
Package         SOT-227-4, miniBLOC           Series         CoolMOS?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         900V           Current - Continuous Drain (Id) @ 25°C         33A           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         3.5V @ 3mA           Gate Charge (Qg) (Max) @ Vgs         270nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6800pF @ 100V           Vgs (Max)         ±20V           FET Feature         Super Junction           Power Dissipation (Max)         290W (Tc)           Rds On (Max) @ Id, Vgs         120 mOhm @ 26A, 10V           Operating Temperature         -40°C ~ 150°C (TJ)           Mounting Type         Chassis Mount           Supplier Device Package         SOT-227           Package / Case         SOT-227-4, miniBLOC	Manufacturer	Microsemi Corporation
PackageSOT-227-4, miniBLOCSeriesCoolMOS?FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)900VCurrent - Continuous Drain (Id) @ 25°C33ADrive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id3.5V @ 3mAGate Charge (Qg) (Max) @ Vgs270nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6800pF @ 100VVgs (Max)±20VFET FeatureSuper JunctionPower Dissipation (Max)290W (Tc)Rds On (Max) @ Id, Vgs120 mOhm @ 26A, 10VOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeChassis MountSupplier Device PackageSOT-227Package / CaseSOT-227-4, miniBLOC	Category	Discrete Semiconductor Products
Series CoolMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 900V Current - Continuous Drain (Id) @ 25°C 33A Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 3.5V @ 3mA Gate Charge (Qg) (Max) @ Vgs 270nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6800pF @ 100V Vgs (Max) ±20V FET Feature Super Junction Power Dissipation (Max) 290W (Tc) Rds On (Max) @ Id, Vgs 120 mOhm @ 26A, 10V Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Chassis Mount Supplier Device Package SOT-227 Package / Case SOT-227-4, miniBLOC		Transistors - FETs, MOSFETs - Single
FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 900V Current - Continuous Drain (Id) @ 25°C 33A Drive Voltage (Max Rds On, Min Rds On) 10V Vgs(th) (Max) @ Id 3.5V @ 3mA Gate Charge (Qg) (Max) @ Vgs 270nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 6800pF @ 100V Vgs (Max) ±20V FET Feature Super Junction Power Dissipation (Max) 290W (Tc) Rds On (Max) @ Id, Vgs 120 mOhm @ 26A, 10V Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Chassis Mount Supplier Device Package SOT-227 Package / Case SOT-227-4, miniBLOC	Package	SOT-227-4, miniBLOC
Technology  Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  33A  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  3.5V @ 3mA  Gate Charge (Qg) (Max) @ Vgs  1nput Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Super Junction  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227-4, miniBLOC	Series	CoolMOS?
Drain to Source Voltage (Vdss)900VCurrent - Continuous Drain (Id) @ 25°C33ADrive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id3.5V @ 3mAGate Charge (Qg) (Max) @ Vgs270nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6800pF @ 100VVgs (Max)±20VFET FeatureSuper JunctionPower Dissipation (Max)290W (Tc)Rds On (Max) @ Id, Vgs120 mOhm @ 26A, 10VOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeChassis MountSupplier Device PackageSOT-227Package / CaseSOT-227-4, miniBLOC	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  10V  Vgs(th) (Max) @ Id  3.5V @ 3mA  Gate Charge (Qg) (Max) @ Vgs  270nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds  6800pF @ 100V  Vgs (Max)  ±20V  FET Feature  Super Junction  Power Dissipation (Max)  290W (Tc)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227-4, miniBLOC	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  3.5V @ 3mA  Gate Charge (Qg) (Max) @ Vgs  1nput Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Super Junction  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227  Package / Case  SOT-227-4, miniBLOC	Drain to Source Voltage (Vdss)	900V
Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  6800pF @ 100V  Vgs (Max)  ±20V  FET Feature  Super Junction  Power Dissipation (Max)  290W (Tc)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227  Package / Case  SOT-227-4, miniBLOC	Current - Continuous Drain (Id) @ 25°C	33A
Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  6800pF @ 100V  Vgs (Max)  ±20V  FET Feature  Super Junction  Power Dissipation (Max)  290W (Tc)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227  Package / Case  SOT-227-4, miniBLOC	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  6800pF @ 100V  Vgs (Max)  ±20V  FET Feature  Super Junction  Power Dissipation (Max)  290W (Tc)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227  Package / Case  SOT-227-4, miniBLOC	Vgs(th) (Max) @ Id	3.5V @ 3mA
Vgs (Max)±20VFET FeatureSuper JunctionPower Dissipation (Max)290W (Tc)Rds On (Max) @ Id, Vgs120 mOhm @ 26A, 10VOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeChassis MountSupplier Device PackageSOT-227Package / CaseSOT-227-4, miniBLOC	Gate Charge (Qg) (Max) @ Vgs	270nC @ 10V
FET Feature  Super Junction  290W (Tc)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227  Package / Case  SOT-227-4, miniBLOC	Input Capacitance (Ciss) (Max) @ Vds	6800pF @ 100V
Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  120 mOhm @ 26A, 10V  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Chassis Mount  Supplier Device Package  SOT-227  Package / Case  SOT-227-4, miniBLOC	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs120 mOhm @ 26A, 10VOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeChassis MountSupplier Device PackageSOT-227Package / CaseSOT-227-4, miniBLOC	FET Feature	Super Junction
Operating Temperature -40°C ~ 150°C (TJ)  Mounting Type Chassis Mount  Supplier Device Package SOT-227  Package / Case SOT-227-4, miniBLOC	Power Dissipation (Max)	290W (Tc)
Mounting Type Chassis Mount Supplier Device Package SOT-227 Package / Case SOT-227-4, miniBLOC	Rds On (Max) @ Id, Vgs	120 mOhm @ 26A, 10V
Supplier Device Package SOT-227 Package / Case SOT-227-4, miniBLOC	Operating Temperature	-40°C ~ 150°C (TJ)
Package / Case SOT-227-4, miniBLOC	Mounting Type	Chassis Mount
	Supplier Device Package	SOT-227
Report errors?	Package / Case	SOT-227-4, miniBLOC
		Report errors?

#### **APT33N90JCU2 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.

### **APT33N90JCU2 Payment Methods**



















# **APT33N90JCU2 Shipping Methods**













If you have any question about APT33N90JCU2, please do not hesitate to contact us!

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