



### FR12M05 Information

Part Number FR12M05

Manufacturer GeneSiC Semiconductor

Category Discrete Semiconductor Products

Diodes - Rectifiers - Single

**Description** DIODE GEN PURP 1KV 12A DO4

Package DO-203AA, DO-4, Stud

For the pricing/inventory/lead time, please contact

us

For Reference Only

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.









### FR12M05 Specifications

Manufacturer Part Number         FR12M05           Manufacturer         GeneSiC Semiconductor           Category         Discrete Semiconductor Products           Diodes - Rectifiers - Single           Package         DO-203AA, DO-4, Stud           Series         -           Diode Type         Standard           Voltage - DC Reverse (Vr) (Max)         1000V           Current - Average Rectified (Io)         12A           Voltage - Forward (Vf) (Max) @ If         800mV @ 12A           Speed         Fast Recovery =< 500ns, > 200mA (Io)           Reverse Recovery Time (trr)         500ns           Current - Reverse Leakage @ Vr         25μA @ 100V           Capacitance @ Vr, F         -           Mounting Type         Chassis, Stud Mount           Package / Case         DO-203AA, DO-4, Stud	Titizii Specifications	
CategoryDiscrete Semiconductor ProductsDiodes - Rectifiers - SinglePackageDO-203AA, DO-4, StudSeries-Diode TypeStandardVoltage - DC Reverse (Vr) (Max)1000VCurrent - Average Rectified (Io)12AVoltage - Forward (Vf) (Max) @ If800mV @ 12ASpeedFast Recovery =< 500ns, > 200mA (Io)Reverse Recovery Time (trr)500nsCurrent - Reverse Leakage @ Vr25μA @ 100VCapacitance @ Vr, F-Mounting TypeChassis, Stud MountPackage / CaseDO-203AA, DO-4, Stud	Manufacturer Part Number	FR12M05
PackageDiodes - Rectifiers - SinglePackageDO-203AA, DO-4, StudSeries-Diode TypeStandardVoltage - DC Reverse (Vr) (Max)1000VCurrent - Average Rectified (Io)12AVoltage - Forward (Vf) (Max) @ If800mV @ 12ASpeedFast Recovery =< 500ns, > 200mA (Io)Reverse Recovery Time (trr)500nsCurrent - Reverse Leakage @ Vr25μA @ 100VCapacitance @ Vr, F-Mounting TypeChassis, Stud MountPackage / CaseDO-203AA, DO-4, Stud	Manufacturer	GeneSiC Semiconductor
Package DO-203AA, DO-4, Stud  Series - Diode Type Standard  Voltage - DC Reverse (Vr) (Max) 1000V  Current - Average Rectified (Io) 12A  Voltage - Forward (Vf) (Max) @ If 800mV @ 12A  Speed Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr) 500ns  Current - Reverse Leakage @ Vr 25µA @ 100V  Capacitance @ Vr, F  Mounting Type Chassis, Stud Mount  Package / Case DO-203AA, DO-4, Stud	Category	Discrete Semiconductor Products
Series         -           Diode Type         Standard           Voltage - DC Reverse (Vr) (Max)         1000V           Current - Average Rectified (Io)         12A           Voltage - Forward (Vf) (Max) @ If         800mV @ 12A           Speed         Fast Recovery =< 500ns, > 200mA (Io)           Reverse Recovery Time (trr)         500ns           Current - Reverse Leakage @ Vr         25μA @ 100V           Capacitance @ Vr, F         -           Mounting Type         Chassis, Stud Mount           Package / Case         DO-203AA, DO-4, Stud		Diodes - Rectifiers - Single
Diode TypeStandardVoltage - DC Reverse (Vr) (Max)1000VCurrent - Average Rectified (Io)12AVoltage - Forward (Vf) (Max) @ If800mV @ 12ASpeedFast Recovery =< 500ns, > 200mA (Io)Reverse Recovery Time (trr)500nsCurrent - Reverse Leakage @ Vr25μA @ 100VCapacitance @ Vr, F-Mounting TypeChassis, Stud MountPackage / CaseDO-203AA, DO-4, Stud	Package	DO-203AA, DO-4, Stud
Voltage - DC Reverse (Vr) (Max)  Current - Average Rectified (Io)  Voltage - Forward (Vf) (Max) @ If  Speed  Reverse Recovery Time (trr)  Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  Mounting Type  Package / Case  1000V  12A  800mV @ 12A  800mV @ 12A  500ns  500ns  Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  Chassis, Stud Mount  DO-203AA, DO-4, Stud	Series	-
Current - Average Rectified (Io)  Voltage - Forward (Vf) (Max) @ If  800mV @ 12A  Fast Recovery =< 500ns, > 200mA (Io)  Reverse Recovery Time (trr)  500ns  Current - Reverse Leakage @ Vr  25µA @ 100V  Capacitance @ Vr, F  Mounting Type  Chassis, Stud Mount  Package / Case  DO-203AA, DO-4, Stud	Diode Type	Standard
Voltage - Forward (Vf) (Max) @ If800mV @ 12ASpeedFast Recovery =< 500ns, > 200mA (Io)Reverse Recovery Time (trr)500nsCurrent - Reverse Leakage @ Vr25μA @ 100VCapacitance @ Vr, F-Mounting TypeChassis, Stud MountPackage / CaseDO-203AA, DO-4, Stud	Voltage - DC Reverse (Vr) (Max)	1000V
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Current - Reverse Leakage @ Vr  Capacitance @ Vr, F  Mounting Type  Chassis, Stud Mount  Package / Case  DO-203AA, DO-4, Stud	Speed	Fast Recovery =< 500ns, > 200mA (Io)
Capacitance @ Vr, F  Mounting Type Chassis, Stud Mount  Package / Case DO-203AA, DO-4, Stud	Reverse Recovery Time (trr)	500ns
Mounting Type Chassis, Stud Mount Package / Case DO-203AA, DO-4, Stud	Current - Reverse Leakage @ Vr	25μA @ 100V
Package / Case DO-203AA, DO-4, Stud	Capacitance @ Vr, F	-
-	Mounting Type	Chassis, Stud Mount
0 11 0 1 0 1	Package / Case	DO-203AA, DO-4, Stud
Supplier Device Package DO-4	Supplier Device Package	DO-4
Operating Temperature - Junction $-65^{\circ}\text{C} \sim 150^{\circ}\text{C}$	Operating Temperature - Junction	-65°C ~ 150°C
Report errors?		Report errors?

### FR12M05 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.

# FR12M05 Payment Methods





















## FR12M05 Shipping Methods













If you have any question about FR12M05, please do not hesitate to contact us!

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