



### STGW30NC60WD Information



For Reference Only

Part Number STGW30NC60WD Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - IGBTs - Single

**Description** IGBT 600V 60A 200W TO247

Package TO-247-3

For the pricing/inventory/lead time, please contact

us

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



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# STGW30NC60WD Specifications

Manufacturer Part Number         STGW30NC60WD           Manufacturer         STMicroelectronics           Category         Discrete Semiconductor Products           Transistors - IGBTs - Single           Package         TO-247-3           Series         PowerMESH?           IGBT Type         -           Voltage - Collector Emitter Breakdown (Max)         600V           Current - Collector (Ic) (Max)         60A           Current - Collector Pulsed (Icm)         150A           Vce(on) (Max) @ Vge, Ic         2.5V @ 15V, 20A           Power - Max         200W           Switching Energy         305μJ (on), 181μJ (off)           Input Type         Standard           Gate Charge         102nC           Td (on/off) @ 25°C         29.5ns/118ns           Test Condition         390V, 20A, 10 Ohm, 15V           Reverse Recovery Time (trr)         40ns           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Package / Case         TO-247-3		
Category         Discrete Semiconductor Products           Transistors - IGBTs - Single           Package         TO-247-3           Series         PowerMESH?           IGBT Type         -           Voltage - Collector Emitter Breakdown (Max)         600V           Current - Collector (Ic) (Max)         60A           Current - Collector Pulsed (Icm)         150A           Vce(on) (Max) @ Vge, Ic         2.5V @ 15V, 20A           Power - Max         200W           Switching Energy         305μJ (on), 181μJ (off)           Input Type         Standard           Gate Charge         102nC           Td (on/off) @ 25°C         29.5ns/118ns           Test Condition         390V, 20A, 10 Ohm, 15V           Reverse Recovery Time (trr)         40ns           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Package / Case         TO-247-3	Manufacturer Part Number	STGW30NC60WD
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IGBT Type-Voltage - Collector Emitter Breakdown (Max)600 VCurrent - Collector (Ic) (Max)60 ACurrent - Collector Pulsed (Icm)150 AVce(on) (Max) @ Vge, Ic2.5 V @ 15 V, 20 APower - Max200 WSwitching Energy305 μJ (on), 181 μJ (off)Input TypeStandardGate Charge102nCTd (on/off) @ 25 °C29.5 ns/118 nsTest Condition390 V, 20 A, 10 Ohm, 15 VReverse Recovery Time (trr)40 nsOperating Temperature-55 °C ~ 150 °C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3	Package	TO-247-3
Voltage - Collector Emitter Breakdown (Max)  Current - Collector (Ic) (Max)  Current - Collector Pulsed (Icm)  Vce(on) (Max) @ Vge, Ic  Power - Max  200W  Switching Energy  305µJ (on), 181µJ (off)  Input Type  Standard  Gate Charge  102nC  Td (on/off) @ 25°C  29.5ns/118ns  Test Condition  390V, 20A, 10 Ohm, 15V  Reverse Recovery Time (trr)  40ns  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Package / Case  TO-247-3	Series	PowerMESH?
Current - Collector (Ic) (Max)       60A         Current - Collector Pulsed (Icm)       150A         Vce(on) (Max) @ Vge, Ic       2.5V @ 15V, 20A         Power - Max       200W         Switching Energy       305μJ (on), 181μJ (off)         Input Type       Standard         Gate Charge       102nC         Td (on/off) @ 25°C       29.5ns/118ns         Test Condition       390V, 20A, 10 Ohm, 15V         Reverse Recovery Time (trr)       40ns         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Through Hole         Package / Case       TO-247-3	IGBT Type	-
Current - Collector Pulsed (Icm)       150A         Vce(on) (Max) @ Vge, Ic       2.5V @ 15V, 20A         Power - Max       200W         Switching Energy       305μJ (on), 181μJ (off)         Input Type       Standard         Gate Charge       102nC         Td (on/off) @ 25°C       29.5ns/118ns         Test Condition       390V, 20A, 10 Ohm, 15V         Reverse Recovery Time (trr)       40ns         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Through Hole         Package / Case       TO-247-3	Voltage - Collector Emitter Breakdown (Max)	600V
Vce(on) (Max) @ Vge, Ic       2.5V @ 15V, 20A         Power - Max       200W         Switching Energy       305μJ (on), 181μJ (off)         Input Type       Standard         Gate Charge       102nC         Td (on/off) @ 25°C       29.5ns/118ns         Test Condition       390V, 20A, 10 Ohm, 15V         Reverse Recovery Time (trr)       40ns         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Through Hole         Package / Case       TO-247-3	Current - Collector (Ic) (Max)	60A
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Switching Energy       305μJ (on), 181μJ (off)         Input Type       Standard         Gate Charge       102nC         Td (on/off) @ 25°C       29.5ns/118ns         Test Condition       390V, 20A, 10 Ohm, 15V         Reverse Recovery Time (trr)       40ns         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Through Hole         Package / Case       TO-247-3	Vce(on) (Max) @ Vge, Ic	2.5V @ 15V, 20A
Input Type  Gate Charge  102nC  Td (on/off) @ 25°C  29.5ns/118ns  Test Condition  Reverse Recovery Time (trr)  40ns  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Package / Case  Standard  102nC  29.5ns/118ns  To-247-3	Power - Max	200W
Gate Charge $102nC$ Td (on/off) @ $25^{\circ}C$ $29.5ns/118ns$ Test Condition $390V$ , $20A$ , $10 Ohm$ , $15V$ Reverse Recovery Time (trr) $40ns$ Operating Temperature $-55^{\circ}C \sim 150^{\circ}C$ (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3	Switching Energy	305μJ (on), 181μJ (off)
Td (on/off) @ 25°C       29.5ns/118ns         Test Condition       390V, 20A, 10 Ohm, 15V         Reverse Recovery Time (trr)       40ns         Operating Temperature       -55°C ~ 150°C (TJ)         Mounting Type       Through Hole         Package / Case       TO-247-3	Input Type	Standard
Test Condition 390V, 20A, 10 Ohm, 15V  Reverse Recovery Time (trr) 40ns  Operating Temperature -55°C ~ 150°C (TJ)  Mounting Type Through Hole  Package / Case TO-247-3	Gate Charge	102nC
Reverse Recovery Time (trr)40nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3	Td (on/off) @ 25°C	29.5ns/118ns
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Package / Case TO-247-3	Operating Temperature	-55°C ~ 150°C (TJ)
•	Mounting Type	Through Hole
G 11 D 1 D 1	Package / Case	TO-247-3
Supplier Device Package TO-247-3	Supplier Device Package	TO-247-3
Report errors?		Report errors?

#### STGW30NC60WD 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.

## STGW30NC60WD Payment Methods





















## STGW30NC60WD Shipping Methods













If you have any question about STGW30NC60WD, please do not hesitate to contact us!

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