



STGP3NB60KD Information



For Reference Only

Part Number STGP3NB60KD

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - IGBTs - Single

Description IGBT 600V 10A 50W TO220

Package TO-220-3

For the pricing/inventory/lead time, please contact

us

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



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STGP3NB60KD Specifications

| Manufacturer Part Number STGP3NB60KD Manufacturer STMicroelectronics Category Discrete Semiconductor Products Transistors - IGBTs - Single TO-220-3 Series PowerMESH? IGBT Type - Voltage - Collector Emitter Breakdown (Max) 600V Current - Collector (Ic) (Max) 10A Current - Collector Pulsed (Icm) 24A Vce(on) (Max) @ Vge, Ic 2.8V @ 15V, 3A Power - Max 50W Switching Energy 30µJ (on), 58µJ (off) Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) Mounting Type Through Hole | | |
|--|---|---------------------------------|
| CategoryDiscrete Semiconductor ProductsPackageTO-220-3SeriesPowerMESH?IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector (Ic) (Max)10ACurrent - Collector Pulsed (Icm)24AVce(on) (Max) @ Vge, Ic2.8V @ 15V, 3APower - Max50WSwitching Energy30μJ (on), 58μJ (off)Input TypeStandardGate Charge14nCTd (on/off) @ 25°C14ns/33nsTest Condition480V, 3A, 10 Ohm, 15VReverse Recovery Time (trr)45nsOperating Temperature150°C (TJ) | Manufacturer Part Number | STGP3NB60KD |
| Package TO-220-3 Series PowerMESH? IGBT Type - Voltage - Collector Emitter Breakdown (Max) 600V Current - Collector (Ic) (Max) 10A Current - Collector Pulsed (Icm) 24A Vce(on) (Max) @ Vge, Ic 2.8V @ 15V, 3A Power - Max 50W Switching Energy 30μJ (on), 58μJ (off) Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Manufacturer | STMicroelectronics |
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| Series PowerMESH? IGBT Type - Voltage - Collector Emitter Breakdown (Max) 600V Current - Collector (Ic) (Max) 10A Current - Collector Pulsed (Icm) 24A Vce(on) (Max) @ Vge, Ic 2.8V @ 15V, 3A Power - Max 50W Switching Energy 30µJ (on), 58µJ (off) Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | | Transistors - IGBTs - Single |
| IGBT Type Voltage - Collector Emitter Breakdown (Max) Current - Collector (Ic) (Max) Current - Collector Pulsed (Icm) Vce(on) (Max) @ Vge, Ic 2.8V @ 15V, 3A Power - Max SoW Switching Energy 30μJ (on), 58μJ (off) Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature | Package | TO-220-3 |
| Voltage - Collector Emitter Breakdown (Max) Current - Collector (Ic) (Max) Current - Collector Pulsed (Icm) Vce(on) (Max) @ Vge, Ic Power - Max Switching Energy Switching Energy Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) Operating Temperature 600V 24A 2.8V @ 15V, 3A 50W Swing Isom Standard 14nC 14nC 14nC 14nS/33ns 150°C (TJ) | Series | PowerMESH? |
| Current - Collector (Ic) (Max) Current - Collector Pulsed (Icm) Vce(on) (Max) @ Vge, Ic 2.8V @ 15V, 3A Power - Max Switching Energy 30µJ (on), 58µJ (off) Input Type Standard Gate Charge Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) Operating Temperature 150°C (TJ) | IGBT Type | - |
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| Vce(on) (Max) @ Vge, Ic 2.8V @ 15V, 3A Power - Max 50W Switching Energy 30μJ (on), 58μJ (off) Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Current - Collector (Ic) (Max) | 10A |
| Power - Max50WSwitching Energy30μJ (on), 58μJ (off)Input TypeStandardGate Charge14nCTd (on/off) @ 25°C14ns/33nsTest Condition480V, 3A, 10 Ohm, 15VReverse Recovery Time (trr)45nsOperating Temperature150°C (TJ) | Current - Collector Pulsed (Icm) | 24A |
| Switching Energy 30µJ (on), 58µJ (off) Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Vce(on) (Max) @ Vge, Ic | 2.8V @ 15V, 3A |
| Input Type Standard Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Power - Max | 50W |
| Gate Charge 14nC Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Switching Energy | 30μJ (on), 58μJ (off) |
| Td (on/off) @ 25°C 14ns/33ns Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Input Type | Standard |
| Test Condition 480V, 3A, 10 Ohm, 15V Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Gate Charge | 14nC |
| Reverse Recovery Time (trr) 45ns Operating Temperature 150°C (TJ) | Td (on/off) @ 25°C | 14ns/33ns |
| Operating Temperature 150°C (TJ) | Test Condition | 480V, 3A, 10 Ohm, 15V |
| | Reverse Recovery Time (trr) | 45ns |
| Mounting Type Through Hole | Operating Temperature | 150°C (TJ) |
| | Mounting Type | Through Hole |
| Package / Case TO-220-3 | Package / Case | TO-220-3 |
| Supplier Device Package TO-220AB | Supplier Device Package | TO-220AB |
| Report errors? | | Report errors? |

STGP3NB60KD 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.

STGP3NB60KD Payment Methods



















STGP3NB60KD Shipping Methods













If you have any question about STGP3NB60KD, please do not hesitate to contact us!

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