

IXGP12N60C

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IXGP12N60C Information

	Part Number	IXGP12N60C
www.heiseper.com	Manufacturer	IXYS
	Category	Discrete Semiconductor Products Transistors - IGBTs - Single
	Description	IGBT 600V 24A 100W TO220
	Package	TO-220-3
-		For the pricing/inventory/lead time, please contact us
For Reference Only		Website: https://www.heisener.com E-mail: salesdept@heisener.com

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.



IXGP12N60C Specifications

ManufacturerKYSCategoryDiscrete Semiconductor ProductsTransistors - IGBTs - SinglePackageTO-220-3SeriesHiPerFAST?IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector (Ic) (Max)24ACurrent - Collector Pulsed (Icm)48AVec(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy9uµl off1Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTo (on/off) @ 25°C20ns/60nsTo ser Recovery Time (trr)-Operating Temperature-Mounting Type55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	-	
CategoryDiscrete Semiconductor Products Transistors - IGBTs - SinglePackageTO-220-3SeriesHiPerFAST?IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector Ic) (Max)24ACurrent - Collector Pulsed (Icm)48AVec(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90µJ (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTd (on/off) @ 25°C20ns/60nsReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Manufacturer Part Number	IXGP12N60C
Transistors - IGBTs - SinglePackageTO-220-3SeriesHiPerFAST?IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector (Ic) (Max)24ACurrent - Collector Pulsed (Icm)48AVec(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90µJ (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	Manufacturer	IXYS
PackageTO-220-3SeriesHiPerFAST?IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector (Lc) (Max)24ACurrent - Collector Pulsed (Icm)48AVec(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90µJ (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Category	Discrete Semiconductor Products
SeriesHiPerFAST?IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector (Lo (Max)24ACurrent - Collector Pulsed (Icm)48AVec(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90µJ (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTd (on/off) @ 25°C20ns/60nsReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB		Transistors - IGBTs - Single
IGBT Type-Voltage - Collector Emitter Breakdown (Max)600VCurrent - Collector (L) (Max)24ACurrent - Collector Pulsed (Icm)48AVec(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90µJ (off)Switching Energy32nCCharge20n/60nsTd (on/off) @ 25°C20n/60nsTd (on/off) @ 25°C20n/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	Package	TO-220-3
Voltage - Collector Emitter Breakdown (Max) 600V Current - Collector (Ic) (Max) 24A Current - Collector Pulsed (Icm) 48A Vec(on) (Max) @ Vge, Ic 2.7V @ 15V, 12A Power - Max 100W Switching Energy 90µJ (off) Input Type Standard Gate Charge 32nC Td (on/off) @ 25°C 20ns/60ns Test Condition 480V, 12A, 18 Ohm, 15V Reverse Recovery Time (trr) - Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Package / Case TO-220-3 Supplier Device Package TO-220AB	Series	HiPerFAST?
Current - Collector (Ic) (Max) 24A Current - Collector Pulsed (Icm) 48A Vce(on) (Max) @ Vge, Ic 2.7V @ 15V, 12A Power - Max 100W Switching Energy 90µJ (off) Input Type Standard Gate Charge 32nC Td (on/off) @ 25°C 20ns/60ns Test Condition 480V, 12A, 18 Ohm, 15V Reverse Recovery Time (trr) - Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Package / Case TO-220-3 Supplier Device Package TO-220AB	IGBT Type	-
Current - Collector Pulsed (Icm)48AVce(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90µl (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-5°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	Voltage - Collector Emitter Breakdown (Max)	600V
Vce(on) (Max) @ Vge, Ic2.7V @ 15V, 12APower - Max100WSwitching Energy90μJ (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Current - Collector (Ic) (Max)	24A
Power - Max100WSwitching Energy90μJ (off)Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Current - Collector Pulsed (Icm)	48A
Switching Energy 90µJ (off) Input Type 512 Gate Charge 32nC Td (on/off) @ 25°C Td (on/off) @ 25°C Test Condition 480V, 12A, 18 Ohm, 15V Reverse Recovery Time (trr) - 55°C ~ 150°C (TJ) Operating Temperature 55°C ~ 150°C (TJ) Mounting Type 512 Package / Case 512 Supplier Device Package 612 Supplier Device Package 712 Supplier Device Package 712 Supplier Device Package 712 Supplier Device Package 712 Supplier Device Package 713 Supplier Device 713 Supplier Device 713 Supplier Device 713 Supplier Device 7	Vce(on) (Max) @ Vge, Ic	2.7V @ 15V, 12A
Input TypeStandardGate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Power - Max	100W
Gate Charge32nCTd (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Switching Energy	90µJ (off)
Td (on/off) @ 25°C20ns/60nsTest Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Input Type	Standard
Test Condition480V, 12A, 18 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Gate Charge	32nC
Reverse Recovery Time (trr)-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Td (on/off) @ 25°C	20ns/60ns
Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Test Condition	480V, 12A, 18 Ohm, 15V
Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Reverse Recovery Time (trr)	-
Package / CaseTO-220-3Supplier Device PackageTO-220AB	Operating Temperature	-55°C ~ 150°C (TJ)
Supplier Device Package TO-220AB	Mounting Type	Through Hole
	Package / Case	TO-220-3
Report errors?	Supplier Device Package	TO-220AB
		Report errors?

IXGP12N60C 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 BUARANTEE

Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

IXGP12N60C Payment Methods



IXGP12N60C Shipping Methods



If you have any question about IXGP12N60C, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com