

## IXYH100N65C3

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## IXYH100N65C3 Information

	Part Number	IXYH100N65C3
www.heltener.com	Manufacturer	IXYS
	Category	Discrete Semiconductor Products Transistors - IGBTs - Single
	Description	IGBT 650V 200A 830W TO247
	Package	TO-247-3
		For the pricing/inventory/lead time, please contact
For Reference Only		Website: https://www.heisener.com E-mail: salesdept@heisener.com



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.



## IXYH100N65C3 Specifications

Manufacturer Part Number     IXYH100N65C3       Manufacturer     IXYS       Category     Discrete Semiconductor Products       Transistors - IGBTs - Single     Transistors - IGBTs - Single       Package     TO-247-3       Series     GenX3?, XPT?       IGBT Type     PT       Voltage - Collector Emitter Breakdown (Max)     650V       Current - Collector (Le) (Max)     200A       Current - Collector Pulsed (Icm)     420A       Vedon (Max) @ Vge, Ic     2.15W100, 840µJ (off)       Switching Energy     31500, 840µJ (off)       Input Type     Standard       Gate Charge     164nC       Tot (Joff) @ 25°C     28x0/106ns       Reverse Recovery Time (trr)     -       Operating Temperature     -55°C ~ 175°C (TJ)       Mounting Type     Through Hole       Package / Case     To-247.3       Supplier Device Package     To-247.3	•	
CategoryDiscrete Semiconductor Products Transistors - IGBTs - SinglePackageTO-247-3SeriesGenX3', XPT?IGBT TypePTVoltage - Collector Emitter Breakdown (Max)650 VCurrent - Collector (Ic) (Max)200ACurrent - Collector Pulsed (Icm)420AVotago - Max330 WPower - Max830WSwitching Energy2.15mJ (on), 840µJ (off)Input TypeStandardGate Charge640N, 50A, 3 Ohm, 15VTod (on/off) @ 25°C28ns/106nsTod (no/off) @ 25°C-Seres Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247.3Supplier Device PackageTO-247.1XYH)	Manufacturer Part Number	IXYH100N65C3
Transistors - IGBTs - SinglePackageTO-247-3SeriesGenX3?, XPT?IGBT TypePTVoltage - Collector Emitter Breakdown (Max)650VCurrent - Collector IL() (Max)200ACurrent - Collector Pulsed (Icm)420AVec(on) (Max) @ Vge, Ic2.3V @ 15V, 70APower - Max830WSwitching Energy2.15mJ (on), 840µJ (off)Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28n/106nsTest Condition400V, 50A, 3 Ohm, 15VRevers Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247.3Supplier Device PackageTO-247 (IXYH)	Manufacturer	IXYS
PackageTO-247-3SeriesGenX3?, XPT?IGBT TypePTVoltage - Collector Emitter Breakdown (Max)650VCurrent - Collector (L) (Max)200ACurrent - Collector Pulsed (Icm)420AVoc(on) (Max) @ Vge, Ic2.3V @ 15V, 70APower - Max830WSwitching Energy2.15m J (on), 840µJ (off)Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28n/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247.3Supplier Device PackageTO-247 (IXYH)	Category	Discrete Semiconductor Products
Series     GenX3?, XPT?       IGBT Type     PT       Voltage - Collector Emitter Breakdown (Max)     650V       Current - Collector (L) (Max)     200A       Current - Collector Pulsed (Icm)     420A       Vec(on) (Max) @ Vge, Ic     2.3V @ 15V, 70A       Power - Max     830W       Switching Energy     2.15m J (on), 840µJ (off)       Input Type     Standard       Gde Charge     164nC       Td (on/off) @ 25°C     28n/106ns       Feste Secovery Time (trr)     208/106ns       Poreating Temperature     55°C ~ 175°C (TJ)       Mounting Type     Though Hole       Pokage / Case     TO-247.3       Supplier Device Package     TO-247.0 (XTH)		Transistors - IGBTs - Single
IGBT TypePTVoltage - Collector Emitter Breakdown (Max)650VCurrent - Collector (Ic) (Max)200ACurrent - Collector Pulsed (Icm)420AVec(on) (Max) @ Vge, Ic2.3V @ 15V, 70APower - Max830WSwitching Energy2.15mJ (on), 840µJ (off)Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247 (IXYH)	Package	TO-247-3
Voltage - Collector Emitter Breakdown (Max)     650V       Current - Collector (Lo) (Max)     200A       Current - Collector Pulsed (Icm)     420A       Vec(on) (Max) @ Vge, Ic     2.3V @ 15V, 70A       Power - Max     830W       Switching Energy     2.15mJ (on), 840µJ (off)       Input Type     Standard       Gate Charge     164nC       Td (on/off) @ 25°C     28ns/106ns       Test Condition     400V, 50A, 3 Ohm, 15V       Reverse Recovery Time (trr)     -       Operating Temperature     -55°C ~ 175°C (TJ)       Mounting Type     Through Hole       Package / Case     TO-247-3       Supplier Device Package     TO-247 (IXYH)	Series	GenX3?, XPT?
Current - Collector (Ic) (Max)     200A       Current - Collector Pulsed (Icm)     420A       Vec(on) (Max) @ Vge, Ic     2.3V @ 15V, 70A       Power - Max     830W       Switching Energy     2.15mJ (on), 840µJ (off)       Input Type     Standard       Gate Charge     164nC       Td (on/off) @ 25°C     28ns/106ns       Test Condition     400V, 50A, 3 Ohm, 15V       Reverse Recovery Time (trr)     -       Operating Temperature     -55°C ~ 175°C (TJ)       Mounting Type     Through Hole       Package / Case     TO-247-3       Supplier Device Package     TO-247 (IXYH)	IGBT Type	PT
Current - Collector Pulsed (Icm)420AVce(on) (Max) @ Vge, Ic2.3V @ 15V, 70APower - Max830WSwitching Energy2.15mJ (on), 840µJ (off)Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Voltage - Collector Emitter Breakdown (Max)	650V
Vce(on) (Max) @ Vge, Ic2.3V @ 15V, 70APower - Max830WSwitching Energy2.15mJ (on), 840µJ (off)Switching EnergyStandardInput TypeStandardGate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-50°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Current - Collector (Ic) (Max)	200A
Power - Max830WSwitching Energy2.15mJ (on), 840µJ (off)Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247.3Supplier Device PackageTO-247 (IXYH)	Current - Collector Pulsed (Icm)	420A
Switching Energy2.15mJ (on), 840µJ (off)Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Vce(on) (Max) @ Vge, Ic	2.3V @ 15V, 70A
Input TypeStandardGate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trry)-Operating Temperature-55°C ~175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Power - Max	830W
Gate Charge164nCTd (on/off) @ 25°C28ns/106nsTest Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Switching Energy	2.15mJ (on), 840µJ (off)
Td (on/off) @ 25°C   28ns/106ns     Test Condition   400V, 50A, 3 Ohm, 15V     Reverse Recovery Time (trr)   -     Operating Temperature   -55°C ~175°C (TJ)     Mounting Type   Through Hole     Package / Case   TO-247-3     Supplier Device Package   TO-247 (IXYH)	Input Type	Standard
Test Condition400V, 50A, 3 Ohm, 15VReverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Gate Charge	164nC
Reverse Recovery Time (trr)-Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Td (on/off) @ 25°C	28ns/106ns
Operating Temperature-55°C ~ 175°C (TJ)Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Test Condition	400V, 50A, 3 Ohm, 15V
Mounting TypeThrough HolePackage / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Reverse Recovery Time (trr)	-
Package / CaseTO-247-3Supplier Device PackageTO-247 (IXYH)	Operating Temperature	-55°C ~ 175°C (TJ)
Supplier Device Package TO-247 (IXYH)	Mounting Type	Through Hole
	Package / Case	TO-247-3
Report errors?	Supplier Device Package	TO-247 (IXYH)
		Report errors?

### IXYH100N65C3 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.

## IXYH100N65C3 Payment Methods



## IXYH100N65C3 Shipping Methods



If you have any question about IXYH100N65C3, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com