

# IRG6I320UPBF

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### **IRG6I320UPBF Information**

	Part Number	IRG6I320UPBF
www.clopper.com	Manufacturer	Infineon Technologies
	Category	Discrete Semiconductor Products Transistors - IGBTs - Single
	Description	IGBT 330V 24A 39W TO220ABFP
	Package	TO-220-3
		For the pricing/inventory/lead time, please contact
For Reference Only		us 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.



### **IRG6I320UPBF** Specifications

Manufacturer Part Number IRG61320UPBF   Manufacturer Infineon Technologies   Category Discrete Semiconductor Products   Transistors - IGBTs - Single Transistors - IGBTs - Single   Package TO-220-3   Series -   IGBT Type Trench   Voltage - Collector Emitter Breakdown (Max) 300V   Current - Collector I(L) (Max) 24A   Current - Collector Pulsed (Icm) -   Vec(on) (Max) @ Vge, Ic 1.65V @ 15V, 24A   Power - Max 39W   Switching Energy -   Input Type Sandard   Gate Charge 46nC   Td (on/off) @ 25°C 24ns/89ns   Test Condition 196V, 12A, 10 Ohm   Reverse Recovery Time (trr) -   Operating Temperature -40°C ~ 150°C (TJ)   Mounting Type Through Hole   Package / Case TO-220.3   Supplic Device Package TO-220.4		
CategoryDiscrete Semiconductor Products Transistors - IGBTs - SinglePackageT0-220-3Series-IGBT TypeTrenchVoltage - Collector Emitter Breakdown (Max)330VCurrent - Collector I(c) (Max)24ACurrent - Collector Pulsed (Icm)-Vedor) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Munting TypeThrough HolePackage / CaseTO-220AB	Manufacturer Part Number	IRG6I320UPBF
Transistors - IGBTs - SinglePackageTO-220-3Series-IGBT TypeTrenchVoltage - Collector Emitter Breakdown (Max)330VCurrent - Collector (Ic) (Max)24ACurrent - Collector Pulsed (Icm)-Vec(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220.4B	Manufacturer	Infineon Technologies
PackageTO-220-3Series-IGBT TypeTrenchVoltage - Collector Emitter Breakdown (Max)330VCurrent - Collector (L) (Max)24ACurrent - Collector Pulsed (Icm)-Vec(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTo (on/off) @ 25°C24ns/89nsFest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	Category	Discrete Semiconductor Products
Series-Series-IGBT TypeTrenchVoltage - Collector Emitter Breakdown (Max)330VCurrent - Collector (Le) (Max)24ACurrent - Collector Pulsed (Icm)-Vec(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsReverse Recovery Time (trr)240°C ~ 150°C (TJ)Noutting Type-Operating Temperature40°C ~ 150°C (TJ)Moutting TypeThrough HoleSupplier Device PackageTO-220AB		Transistors - IGBTs - Single
IGBT TypeTrenchVoltage - Collector Emitter Breakdown (Max)330VCurrent - Collector (Lo) (Max)24ACurrent - Collector Pulsed (Icm)-Vec(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTol (on/off) @ 25°C196V, 12A, 10 OhmReverse Recovery Time (trr)-Querting Temperature-Mounting Type-Pokage / CaseTor220-3Suppler Device PackageTo-220AB	Package	TO-220-3
Voltage - Collector Emitter Breakdown (Max)330VCurrent - Collector (Lo) (Max)24ACurrent - Collector Pulsed (Icm)-Vce(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24n/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	Series	-
Current - Collector (Ic) (Max)24ACurrent - Collector Pulsed (Icm)-Vec(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	IGBT Type	Trench
Current - Collector Pulsed (Icm)-Vec(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCCo (or) G1 © 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220AB	Voltage - Collector Emitter Breakdown (Max)	330V
Vce(on) (Max) @ Vge, Ic1.65V @ 15V, 24APower - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Current - Collector (Ic) (Max)	24A
Power - Max39WSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Current - Collector Pulsed (Icm)	-
NumberNumberSwitching Energy-Input TypeStandardGate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Vce(on) (Max) @ Vge, Ic	1.65V @ 15V, 24A
Input Type   Standard     Input Type   Standard     Gate Charge   46nC     Td (on/off) @ 25°C   24ns/89ns     Test Condition   196V, 12A, 10 Ohm     Reverse Recovery Time (trr)   -     Operating Temperature   -40°C ~ 150°C (TJ)     Mounting Type   Through Hole     Package / Case   TO-220-3     Supplier Device Package   TO-220AB	Power - Max	39W
Gate Charge46nCTd (on/off) @ 25°C24ns/89nsTest Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Switching Energy	-
Td (on/off) @ 25°C 24ns/89ns   Test Condition 196V, 12A, 10 Ohm   Reverse Recovery Time (trr) -   Operating Temperature -40°C ~ 150°C (TJ)   Mounting Type Through Hole   Package / Case TO-220-3   Supplier Device Package TO-220AB	Input Type	Standard
Test Condition196V, 12A, 10 OhmReverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Gate Charge	46nC
Reverse Recovery Time (trr)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Td (on/off) @ 25°C	24ns/89ns
Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Test Condition	196V, 12A, 10 Ohm
Mounting TypeThrough HolePackage / CaseTO-220-3Supplier Device PackageTO-220AB	Reverse Recovery Time (trr)	-
Package / CaseTO-220-3Supplier Device PackageTO-220AB	Operating Temperature	-40°C ~ 150°C (TJ)
Supplier Device Package TO-220AB	Mounting Type	Through Hole
	Package / Case	TO-220-3
Report error	Supplier Device Package	TO-220AB
		Report errors?

#### **IRG6I320UPBF** 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.

#### **IRG6I320UPBF Payment Methods**





If you have any question about IRG6I320UPBF, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com