

INFINEON POWER BLOCK MODULES

Product Data Sheet

TD330N16KOF

phase control thyristor/diode module

FUNCTION	FAMILY	ORIGIN	WEIGHT
phase control thyristor/diode module	Infineon Power Block modules	Germany	0.8 kg

Infineon TD330N16KOF is a phase control thyristor/diode module for the Infineon Power Block modules. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Device Configuration	SCR/diode phase control
Repetitive Peak Off-State Voltage	1600 V
Average On-State Current	330 A at TC 85°C
RMS On-State Current	520 A
Surge Current	12,500 A at 25°C
I ² t Rating	781,250 A²s at 25°C
Threshold Voltage	0.8 V
Slope Resistance	0.5 mΩ
Maximum On-State Voltage	1.28 V
Thermal Resistance Junction-to-Case	0.112 K/W per arm

ADDITIONAL PRODUCT DATA

Maximum Junction Temperature	130°C
Critical Current Rise Rate	250 A/μs
Critical Voltage Rise Rate	1000 V/μs
Mounting Torque	5 N·m ±15%
Terminal Torque	12 N·m ±15%

OFFICIAL APPLICATIONS

- HVAC fan and pump drive cabinets: HVAC Drive Systems
- Motor starting and drive rectifier panels: Motor Control Systems
- UPS rectification and battery charging rooms: Power Conversion Systems

SYSTEM COMPATIBILITY

Match TD330N16KOF to the installed Infineon Power Block modules, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Infineon official manufacturer documentation](#)

<https://www.infineon.com/assets/row/public/documents/60/49/infineon-tt330n-datasheet-de.pdf>

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM