

RECTIFIER DIODES MODULE

AZD610HVI

Repetitive voltage up to **5600 V**
Mean forward current **611 A**
Surge current **20 kA**

FINAL SPECIFICATION

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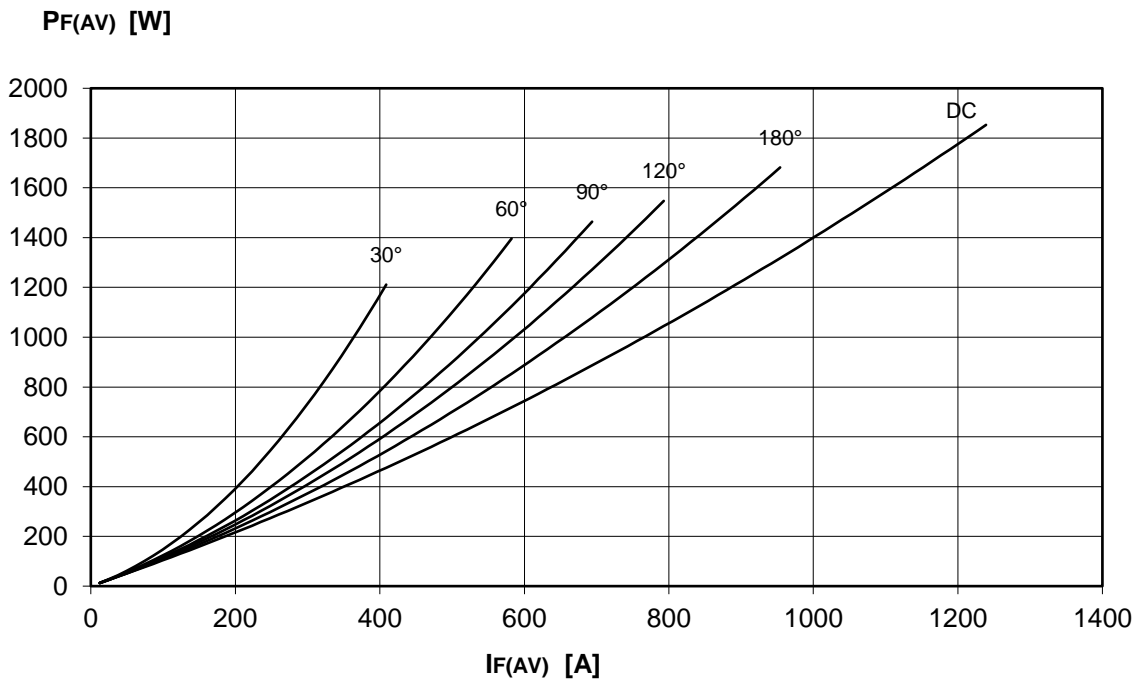
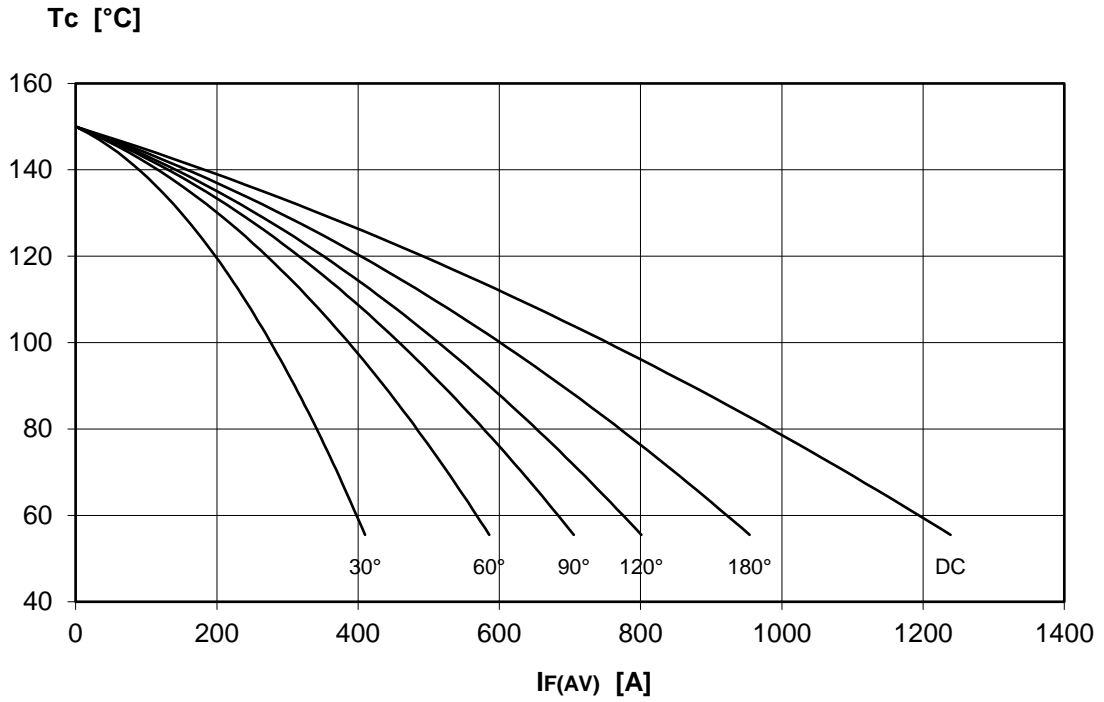
Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	5600	V
V _{RSM}	Non-repetitive peak reverse voltage		150	5700	V
I _{RRM}	Repetitive peak reverse current		150	100	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, T _c =100°C, single side cooled		611	A
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, T _c =55°C, single side cooled		958	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	150	20	kA
I ² t	I ² t			2000 x 10 ³	A ² s
V _{FM}	Forward voltage	Forward current = 1800 A	150	1,72	V
V _{F(TO)}	Threshold voltage		150	1,00	V
r _F	Forward slope resistance		150	0,400	mohm
SWITCHING					
t _{rr}	Reverse recovery time		150		µs
Q _{rr}	Reverse recovery charge				µC
I _{rr}	Peak reverse recovery current				A
MOUNTING					
R _{th(j-c)}	Thermal impedance, DC	Junction to case		51,0	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink		15,0	°C/kW
T _j	Operating junction temperature			-30 / 150	°C
V _{ins}	RMS insulation voltage	50Hz, circuit to base, all terminal shorted	25	4500	V
T	Mounting torque	Case to heatsink		4 to 6	Nm
		Busbars to terminals		12 to 18	Nm
	Mass			2800	g

ORDERING INFORMATION : AZD610HVI S 56

standard specification VRRM/100

DISSIPATION CHARACTERISTICS

SQUARE WAVE



DISSIPATION CHARACTERISTICS

SINE WAVE

