

RECTIFIER DIODES MODULE

AZD1600

Repetitive voltage up to **1000 V**
Mean forward current **1600 A**
Surge current **44,8 kA**

FINAL SPECIFICATION

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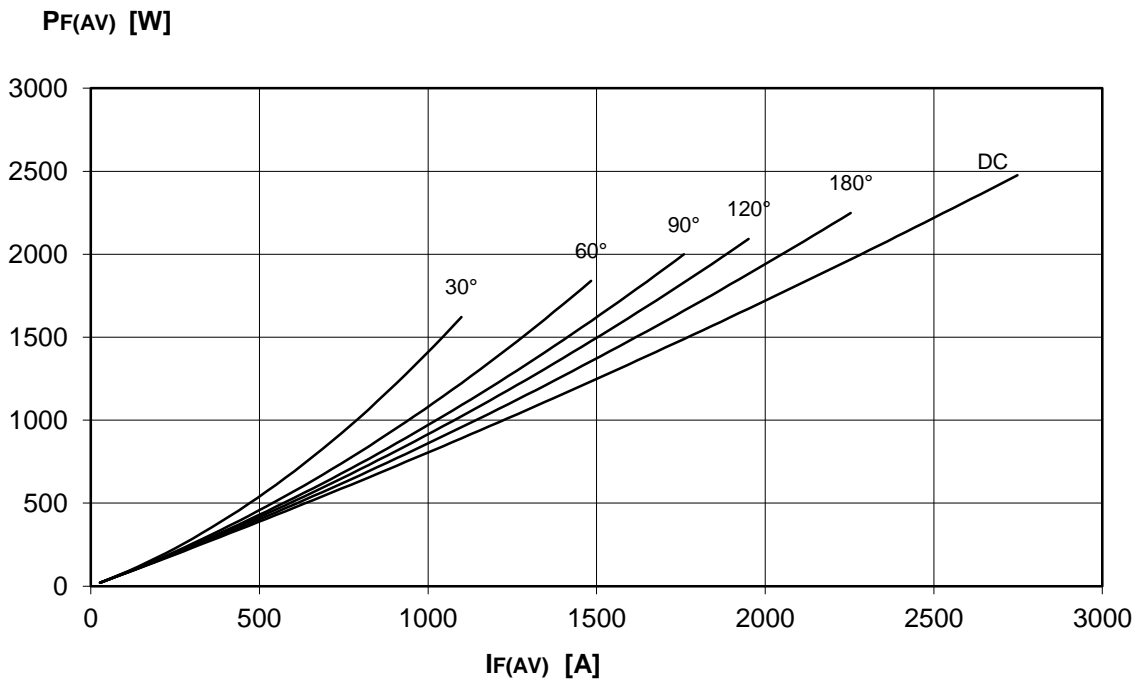
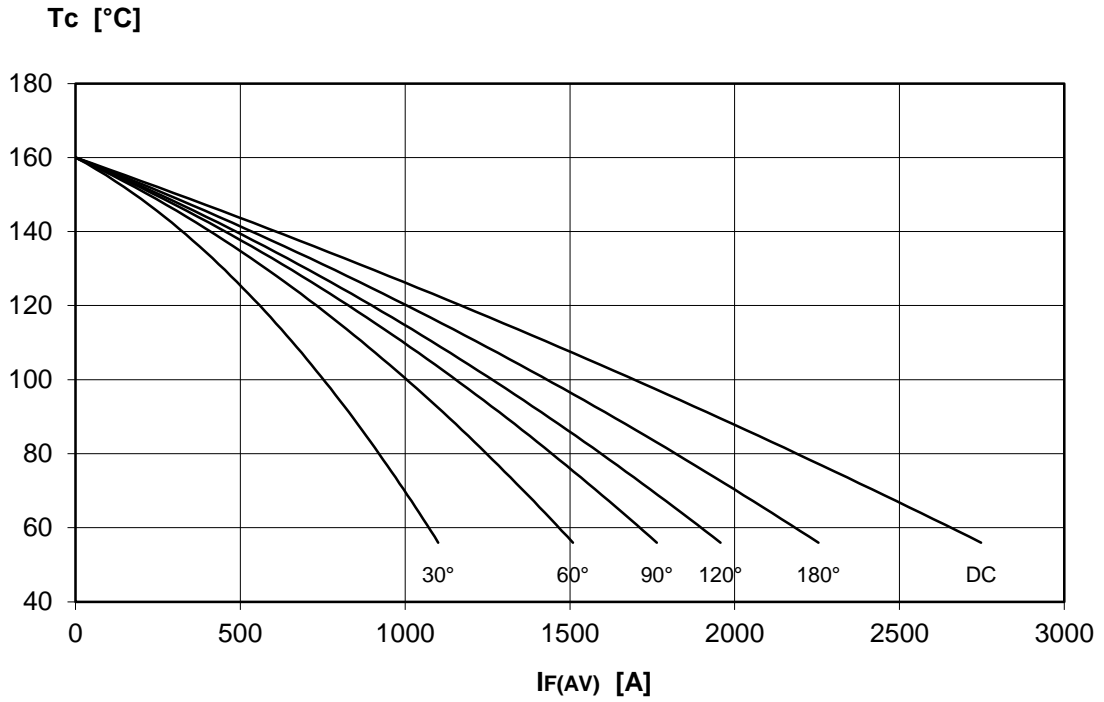
Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		160	1000	V
V _{RSM}	Non-repetitive peak reverse voltage		160	1100	V
I _{RRM}	Repetitive peak reverse current		160	75	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, T _c =95°C, single side cooled		1600	A
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, T _c =85°C, single side cooled		1797	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	160	44,8	kA
I ² t	I ² t			10035 x 10 ³	A ² s
V _{FM}	Forward voltage	Forward current = 1800 A	25	1,16	V
V _{F(TO)}	Threshold voltage		160	0,75	V
r _F	Forward slope resistance		160	0,055	mohm
SWITCHING					
t _{rr}	Reverse recovery time		160		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		42,0	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink		15,0	°C/kW
T _j	Operating junction temperature			-30 / 160	°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 : AZD1600 S 10

standard specification VRRM/100

DISSIPATION CHARACTERISTICS

SQUARE WAVE



DISSIPATION CHARACTERISTICS

SINE WAVE

