

POSEICO

POSEICO SPA

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RECTIFIER SINGLE DIODES MODULE**AZD780HVI**

- Full hermetic packaging
- Base plate insulation using AlN substrate
- Industrial compatible packaging
- Contract screws available on request

Repetitive voltage up to

4500 V

Mean on-state current

780 A

Surge current

19 kA**TARGET SPECIFICATION**

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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	4500	V
V _{RSM}	Non-repetitive peak reverse voltage		150	4600	V
I _{RRM}	Repetitive peak reverse current		150	150	mA
CONDUCTING					
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =100°C		780	A
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =55°C		1240	A
I _{FSM}	Surge on-state current	sine wave, 10 ms	150	19	kA
I ² t	I ² t	without reverse voltage		1805 x1E3	A ² s
V _F	On-state voltage	On-state current = 1800 A	25	1,38	V
V _{F(TO)}	Threshold voltage		150	0,80	V
r _F	On-state slope resistance		150	0,210	mohm
MOUNTING					
R _{th(j-c)}	Thermal impedance	Junction to case		51	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink		15	°C/kW
T _j	Operating junction temperature			-30 / 150	°C
V _{ins}	RMS insulation voltage	50Hz, circuit to base, all terminal shorted	25	6000	V
T	Mounting torque	Case to heatsink		4 to 6	Nm
		Busbars to terminals		12 to 18	Nm
	Mass			2800	g
ORDERING INFORMATION : AZD780HVI S 45 standard specification —┐┐ VRRM/100					

