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RECTIFIER SINGLE DIODES MODULE**AZD1280**

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

Repetitive voltage up to	1000 V
Mean on-state current	1280 A
Surge current	38 kA

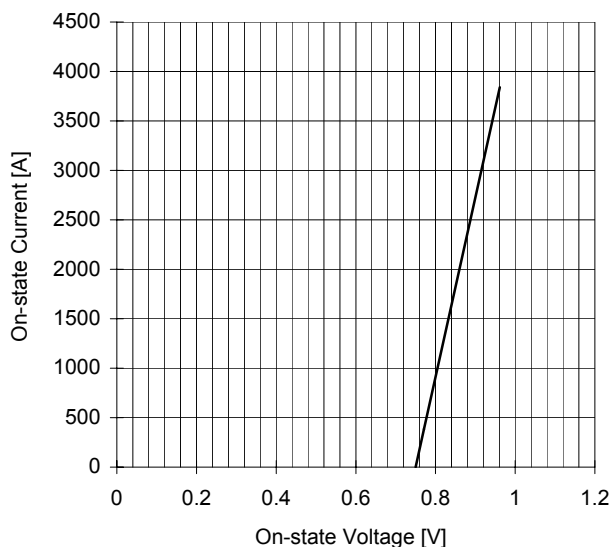
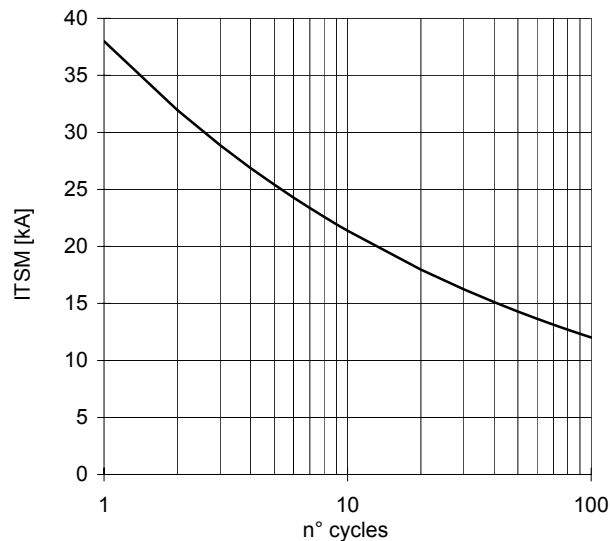
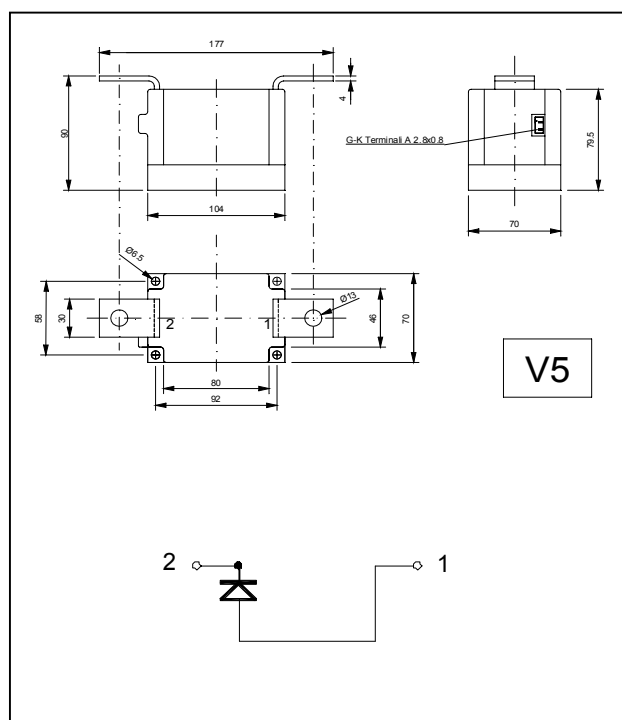
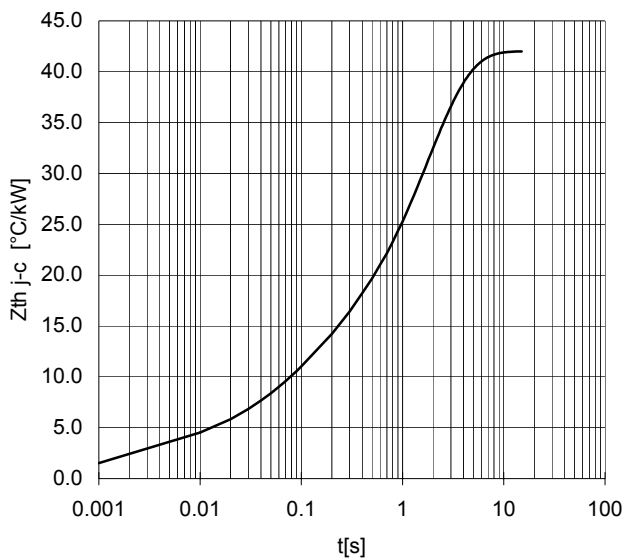
TARGET SPECIFICATION

feb 04 - ISSUE : 0

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	1000	V
V _{RSM}	Non-repetitive peak reverse voltage		150	1100	V
I _{RRM}	Repetitive peak reverse current		150	75	mA
CONDUCTING					
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =100°C		1280	A
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =55°C		2160	A
I _{FSM}	Surge on-state current	sine wave, 10 ms	150	38	kA
I ² t	I ² t	without reverse voltage		7220 x1E3	A ² s
V _F	On-state voltage	On-state current = 1800 A	25	1.05	V
V _{F(TO)}	Threshold voltage		150	0.75	V
r _F	On-state slope resistance		150	0.055	mohm
MOUNTING					
R _{th(j-c)}	Thermal impedance	Junction to case		42	°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	4500	V
T	Mounting torque	Case to heatsink		4 to 6	Nm
		Busbars to terminals		12 to 18	Nm
	Mass			2800	g
ORDERING INFORMATION : AZD1280 S 10 standard specification —┐┐ VRRM/100					

AZD1280 RECTIFIER SINGLE DIODES MODULE

TARGET SPECIFICATION feb 04 - ISSUE : 0

ON-STATE CHARACTERISTIC
 $T_j = 150\text{ }^\circ\text{C}$

SURGE CHARACTERISTIC
 $T_j = 150\text{ }^\circ\text{C}$

TRANSIENT THERMAL IMPEDANCE


All the characteristics given in this data sheet are guaranteed only with uniform clamping force, cleaned and lubricated heatsink, surfaces with flatness $< .03\text{ mm}$ and roughness $< 2\text{ }\mu\text{m}$.

In the interest of product improvement POSEICO SPA reserves the right to change any data given in this data sheet at any time without previous notice.

If not stated otherwise the maximum value of ratings (symbols over shaded background) and characteristics is reported.

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