

 POSEICO POSEICO SPA	POSEICO SPA Via N. Lorenzi 8, 16152 Genova - ITALY Tel. +39 010 6556234 - Fax +39 010 6557519 Sales Office: Tel. +39 010 6556775 - Fax +39 010 6442510
	POver SEmiconductors Italian COrporation

RECTIFIER SINGLE DIODES MODULE**AZD1080**

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

Repetitive voltage up to	2800 V
Mean on-state current	1080 A
Surge current	30 kA

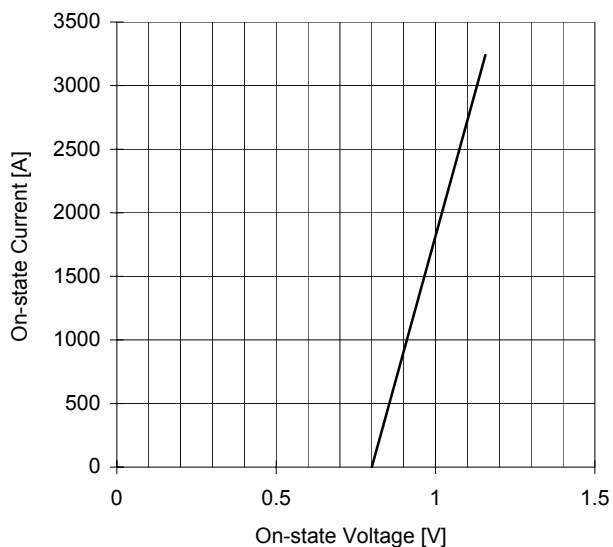
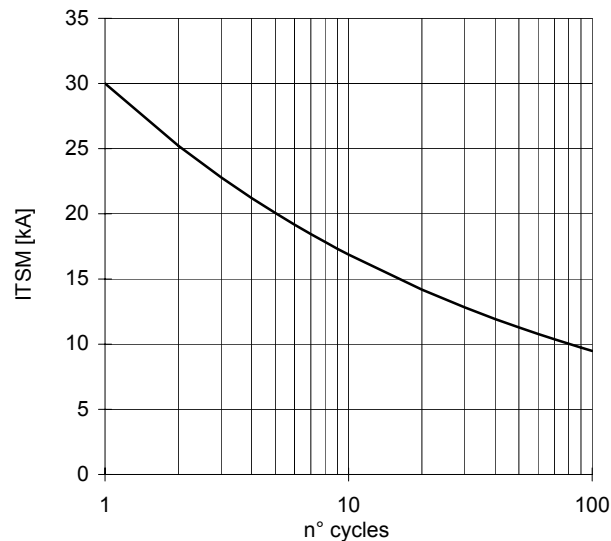
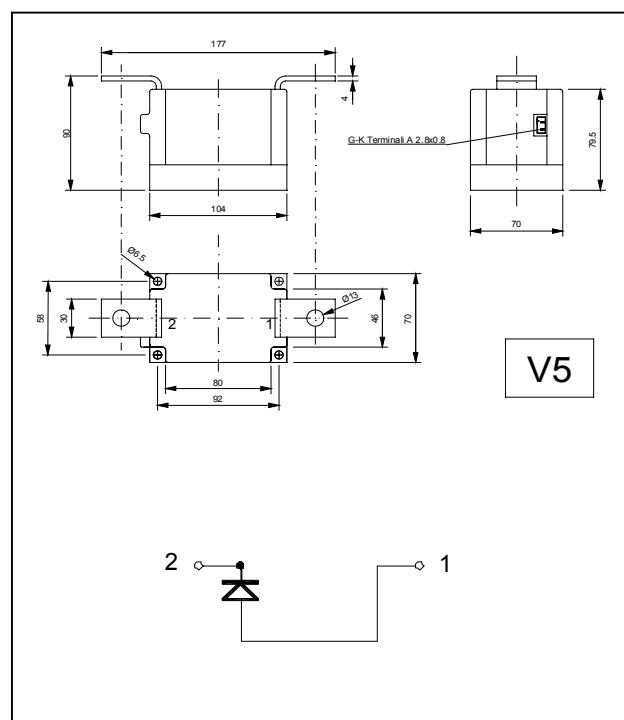
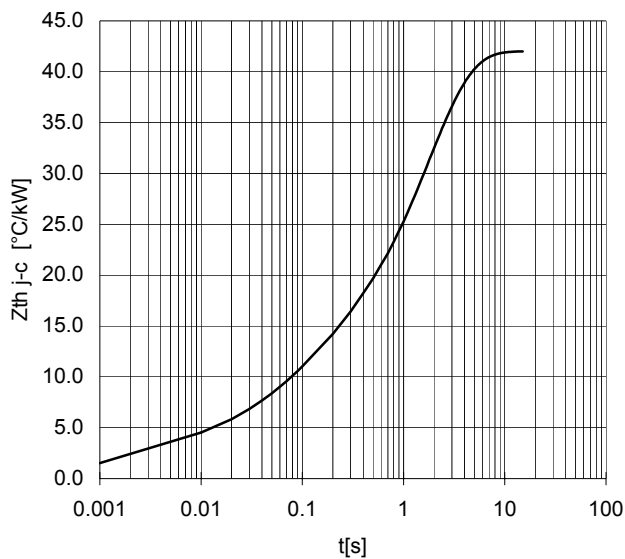
TARGET SPECIFICATION

feb 04 - ISSUE : 0

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	2800	V
V _{RSM}	Non-repetitive peak reverse voltage		150	2900	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		1080	A
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =55°C		1760	A
I _{FSM}	Surge on-state current	sine wave, 10 ms	150	30	kA
I ² t	I ² t	without reverse voltage		4500 x1E3	A ² s
V _F	On-state voltage	On-state current = 1800 A	25	1.20	V
V _{F(TO)}	Threshold voltage		150	0.80	V
r _F	On-state slope resistance		150	0.110	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 : AZD1080 S 28 standard specification —┐┐ VRRM/100					

AZD1080 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 mm and roughness < 2 μm .

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.

Distributed by

