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RECTIFIER SINGLE DIODES MODULE

AZD930

- 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 **930 A**
Surge current **19 kA**

TARGET SPECIFICATION

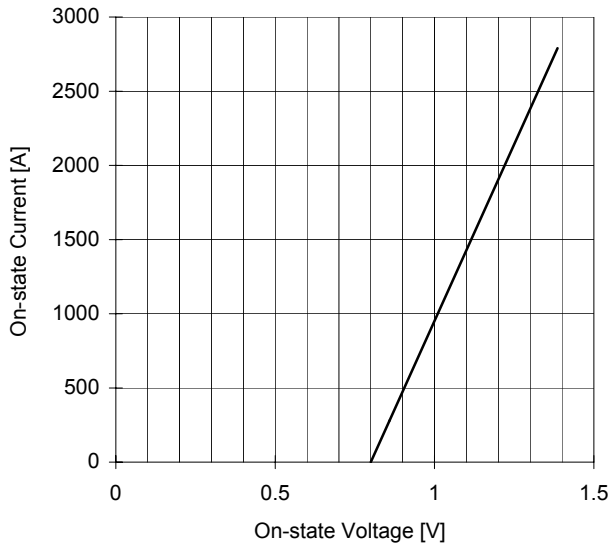
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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	4500	V
V _{RSM}	Non-repetitive peak reverse voltage		150	4600	V
I _{RRM}	Repetitive peak reverse current		150	150	mA
CONDUCTING					
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =100°C		930	A
I _{F(AV)}	Mean on-state current	180° sin, 50Hz, T _c =55°C		1450	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		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
<p>ORDERING INFORMATION : AZD930 S 45 standard specification ———┐┌ VRRM/100</p>					

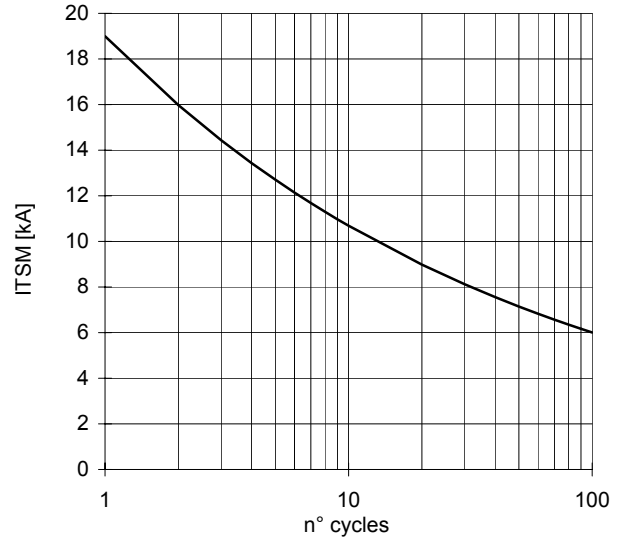
AZD930 RECTIFIER SINGLE DIODES MODULE

TARGET SPECIFICATION feb 04 - ISSUE : 2

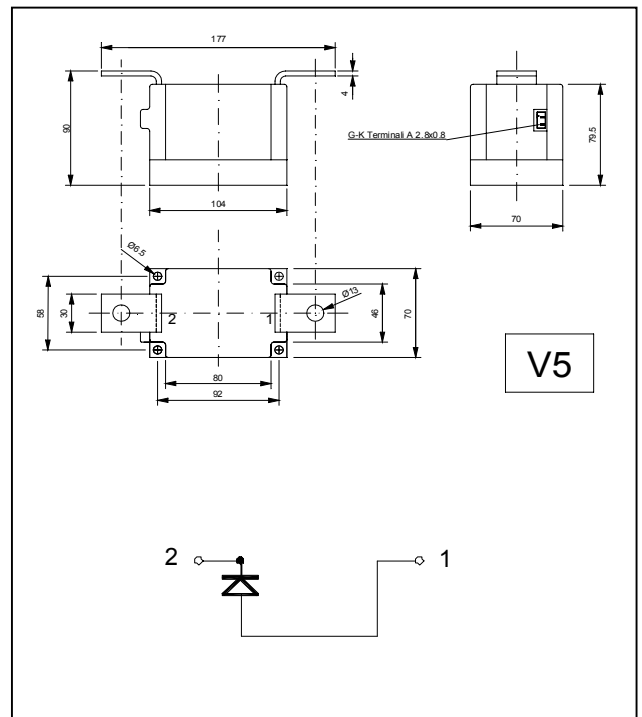
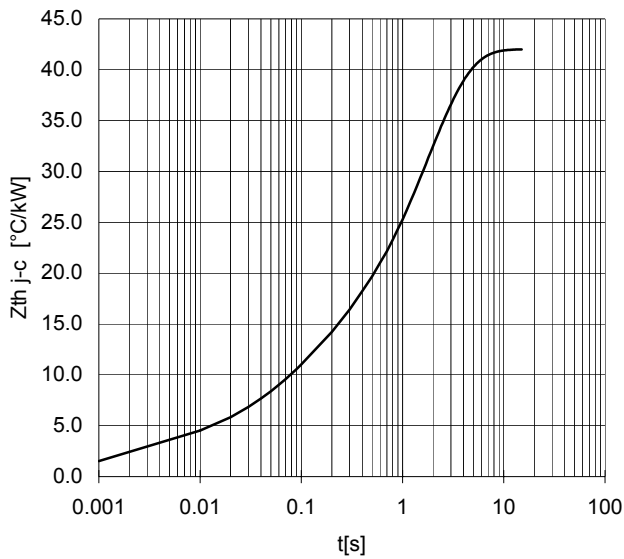
ON-STATE CHARACTERISTIC
 $T_j = 150\text{ }^\circ\text{C}$



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.

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