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POSEICO SPA
Power SEmiconductors Italian COporation

捷多邦, 专业PCB打样工厂, 24小时加急出货
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RECTIFIER DIODE

AR904

Repetitive voltage up to **2900 V**
Mean forward current **1230 A**
Surge current **10.1 kA**

FINAL SPECIFICATION

nov 02 - ISSUE : 05

Symbol	Characteristic	Conditions	T _J [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		175	2900	V
V _{RSM}	Non-repetitive peak reverse voltage		175	3000	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	175	50	mA
CONDUCTING					
I _F (AV)	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		1230	A
I _F (AV)	Mean forward current	180° sin ,50 Hz, Tc=85°C, double side cooled		1170	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	175	10.1	kA
I ² t	I ² t			510 x 1E3	A²s
V _{FM}	Forward voltage	Forward current = 1200 A	25	1.30	V
V _{F(TO)}	Threshold voltage		175	0.87	V
r _F	Forward slope resistance		175	0.330	mohm
SWITCHING					
t _{rr}	Reverse recovery time		175		µs
Q _{rr}	Reverse recovery charge				µC
I _{rr}	Peak reverse recovery current				A
MOUNTING					
R _{th(j-h)}	Thermal impedance, DC	Junction to heatsink, double side cooled		52	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		10	°C/kW
T _j	Operating junction temperature			-30 / 175	°C
F	Mounting force			8.4 / 9.4	kN
	Mass			280	g

ORDERING INFORMATION : AR904 S 29

standard specification ☐ VRRM/100 ☐



AR904 RECTIFIER DIODE

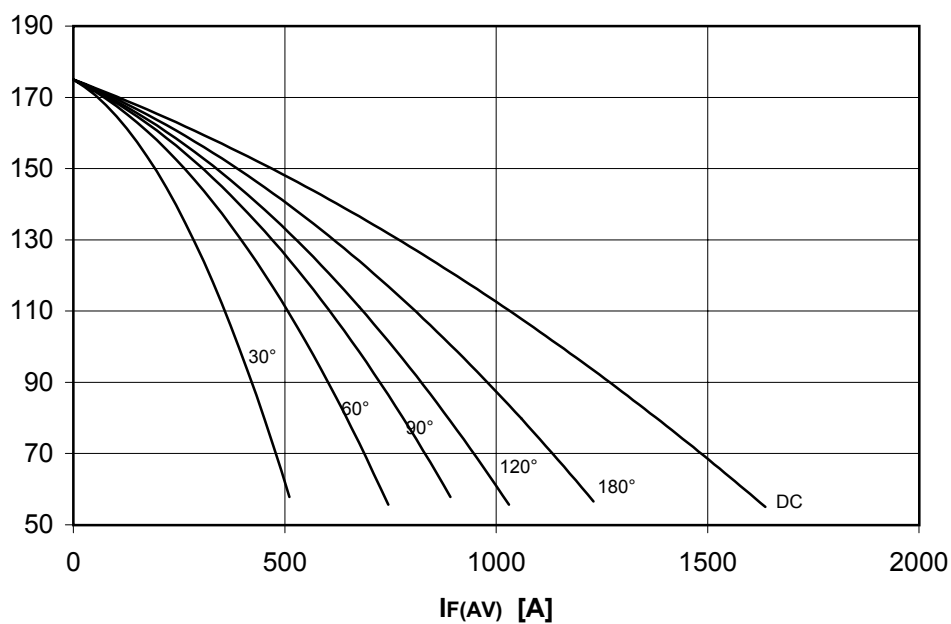


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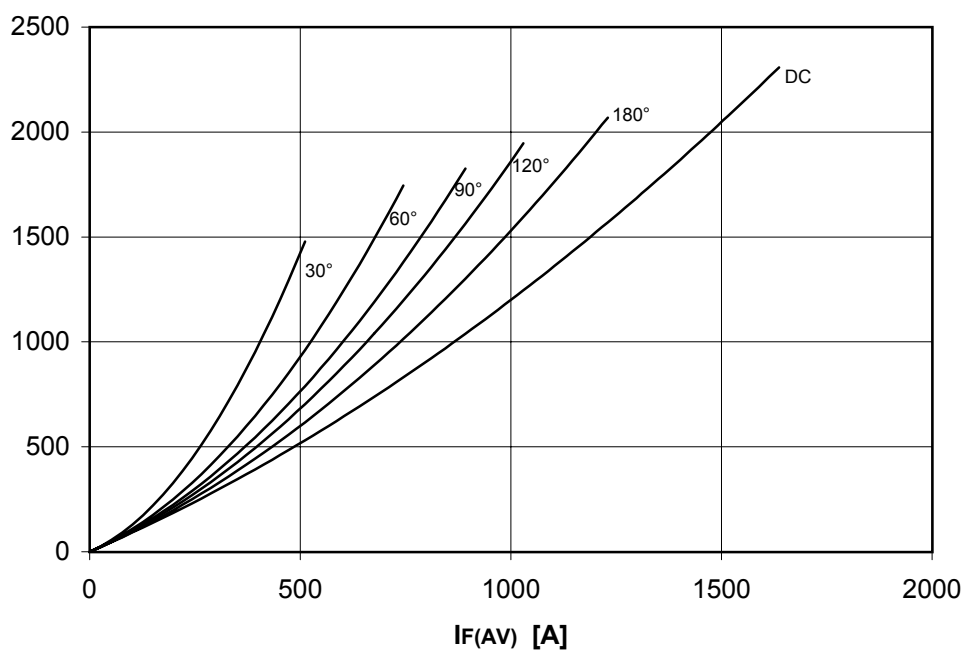
DISSIPATION CHARACTERISTICS

SQUARE WAVE

T_h [°C]



$P_F(AV)$ [W]



AR904 RECTIFIER DIODE

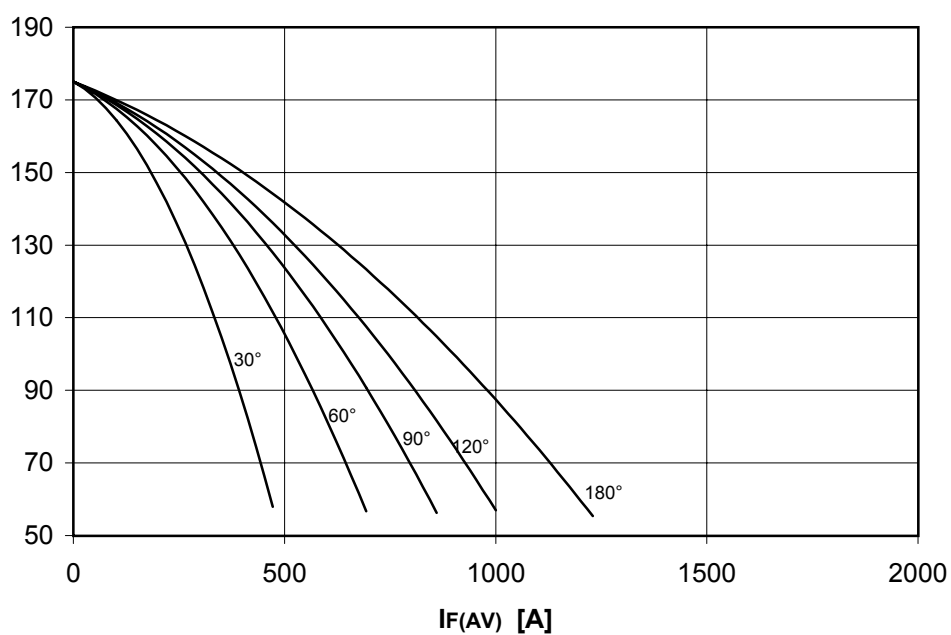


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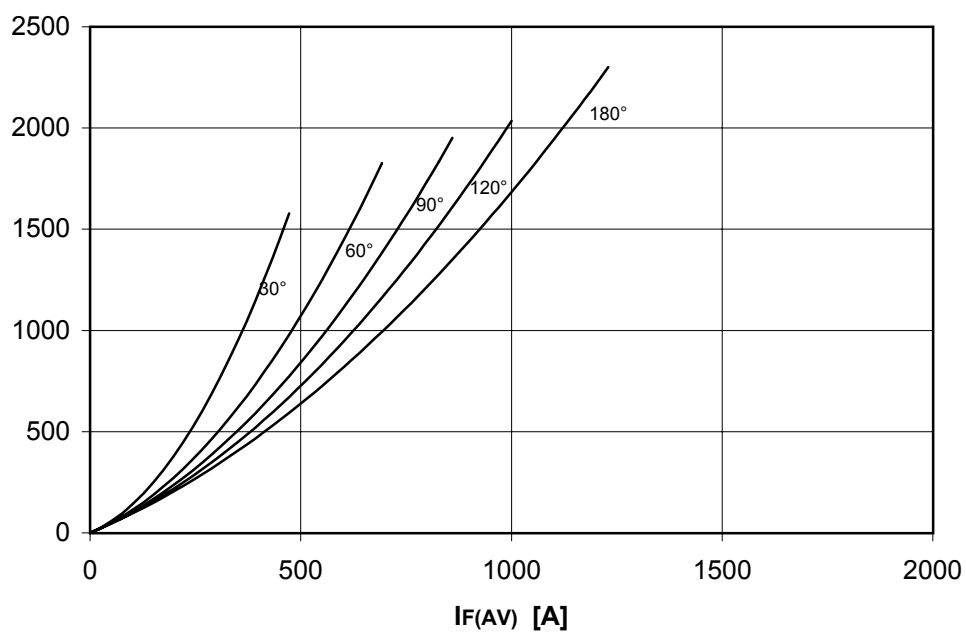
DISSIPATION CHARACTERISTICS

SINE WAVE

T_h [°C]



$P_F(AV)$ [W]

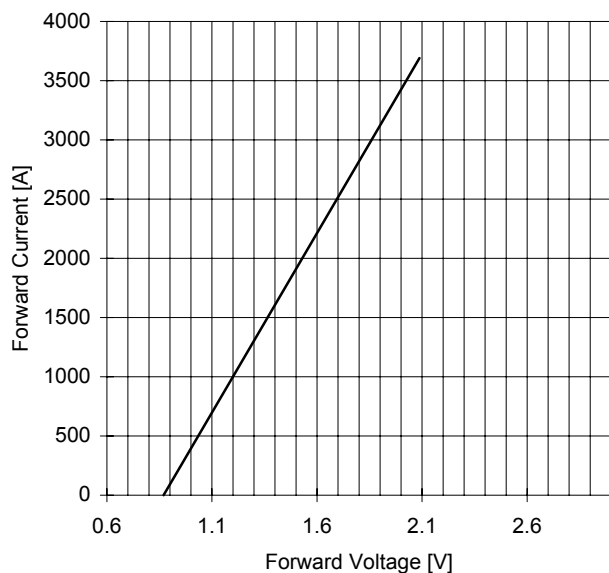


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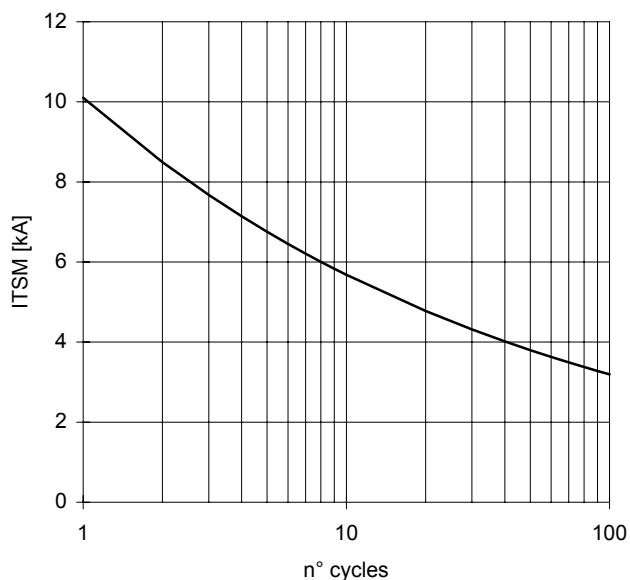


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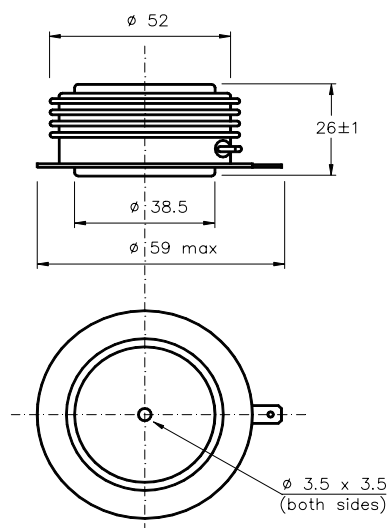
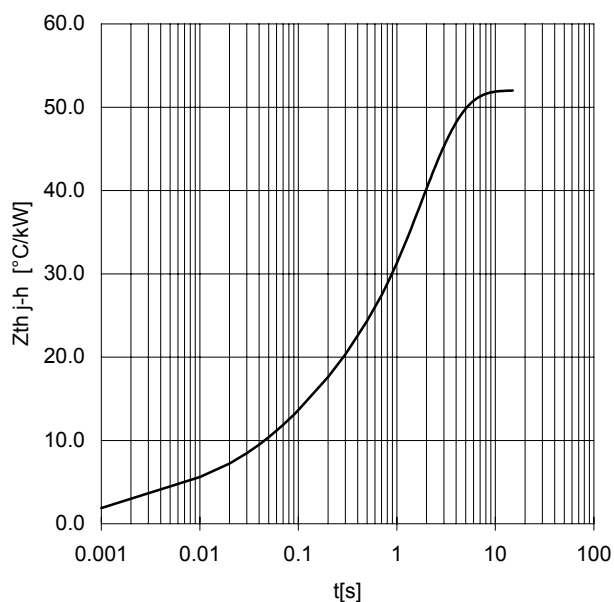
FORWARD CHARACTERISTIC
 $T_j = 175^\circ\text{C}$



SURGE CHARACTERISTIC
 $T_j = 175^\circ\text{C}$



TRANSIENT THERMAL IMPEDANCE
DOUBLE SIDE COOLED



Dimensions
in mm



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 $< 2 \mu\text{m}$.

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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