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POSEICO SPA

Power SEmiconductors Italian COporation

POSIC SPA 康多邦专业PCB打样工厂, 24小时加急出货

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RECTIFIER DIODE

AR2009

Repetitive voltage up to **4400 V**
Mean forward current **1560 A**
Surge current **18.5 kA**

FINAL SPECIFICATION

nov 02 - ISSUE : 05

Symbol	Characteristic	Conditions	T _J [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	4400	V
V _{RSM}	Non-repetitive peak reverse voltage		150	4500	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	150	75	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		1560	A
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Tc=85°C, double side cooled		1450	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	150	18.5	kA
I ² t	I ² t			1711 x 1E3	A ² s
V _{FM}	Forward voltage	Forward current = 3400 A	25	1.80	V
V _{F(TO)}	Threshold voltage		150	0.83	V
r _F	Forward slope resistance		150	0.393	mohm
SWITCHING					
t _{rr}	Reverse recovery time		150		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		26	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		6	°C/kW
T _j	Operating junction temperature			-30 / 150	°C
F	Mounting force			18.0 / 20.0	kN
	Mass			500	g

ORDERING INFORMATION : AR2009 S 44

standard specification

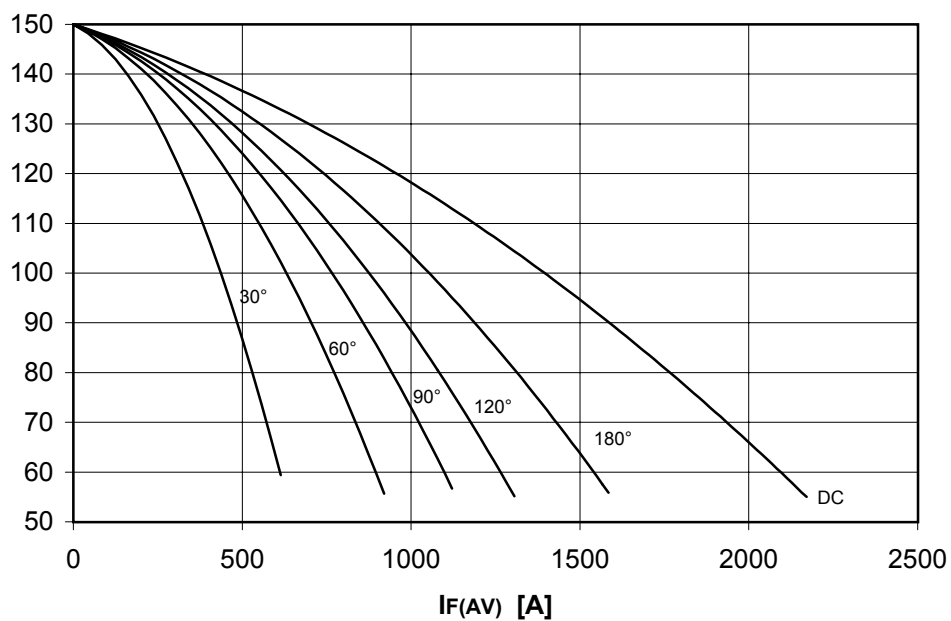
VRRM/100



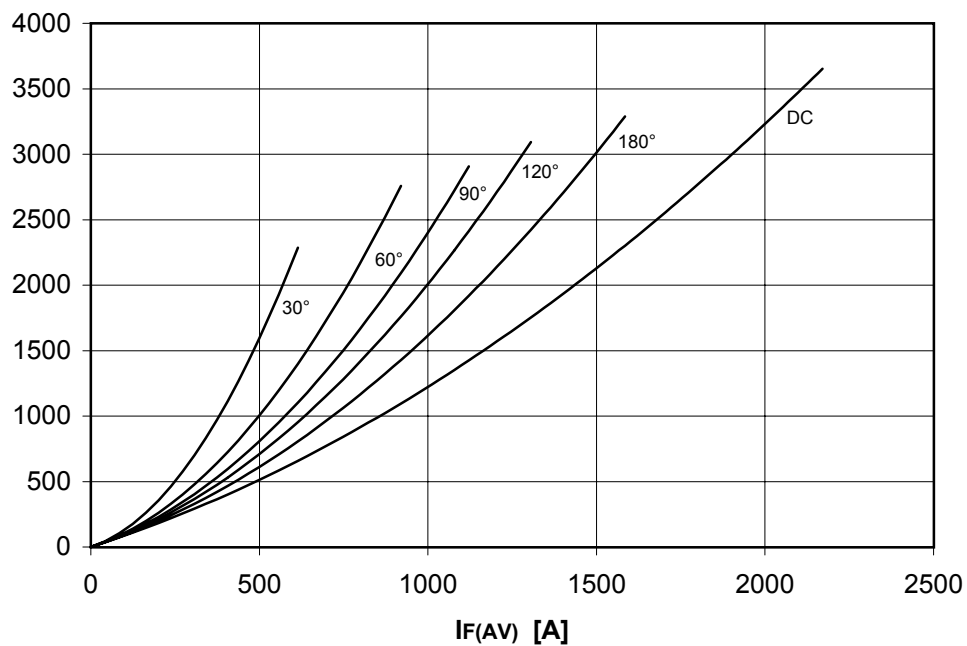
DISSIPATION CHARACTERISTICS

SQUARE WAVE

Th [°C]



PF(AV) [W]



AR2009 RECTIFIER DIODE

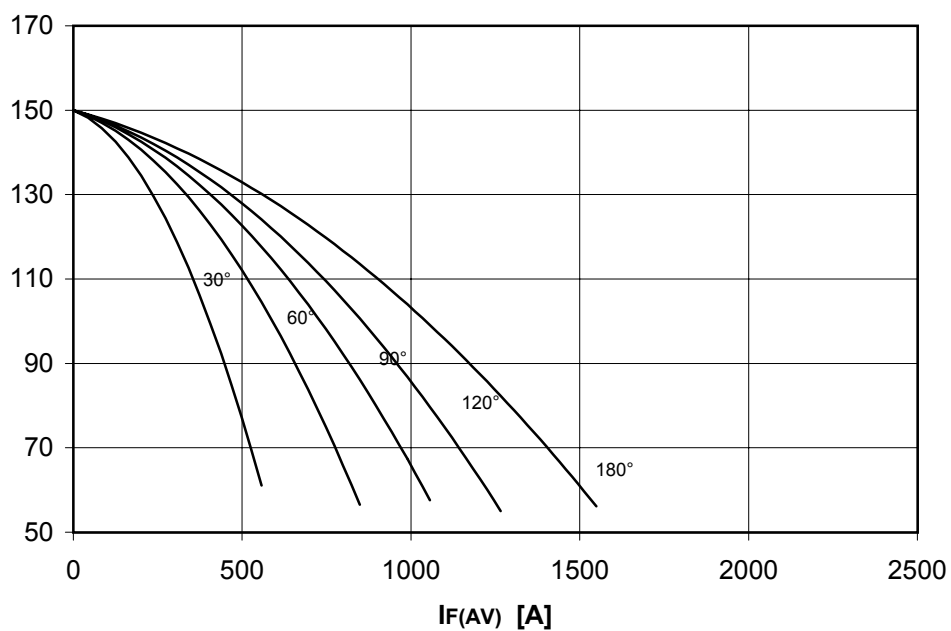


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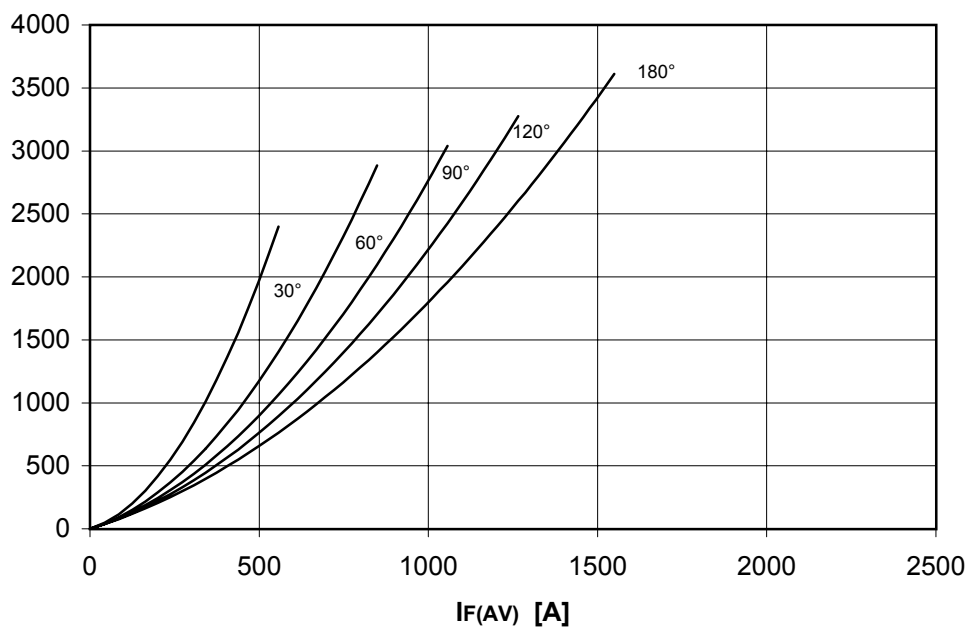
DISSIPATION CHARACTERISTICS

SINE WAVE

T_h [°C]



$P_F(AV)$ [W]

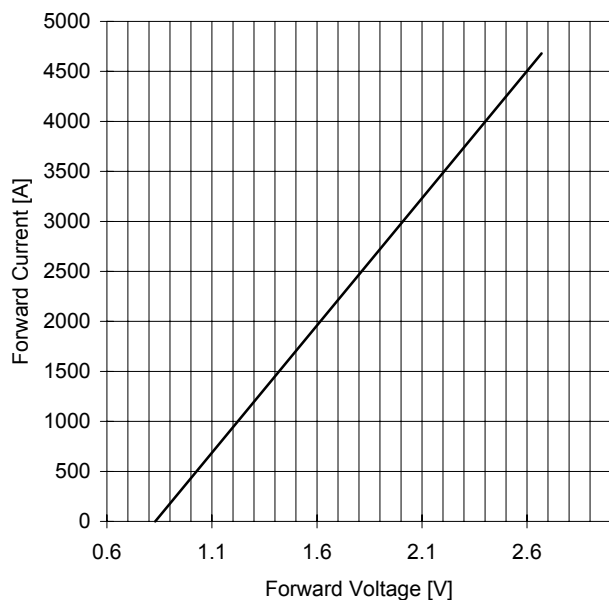


AR2009 RECTIFIER DIODE

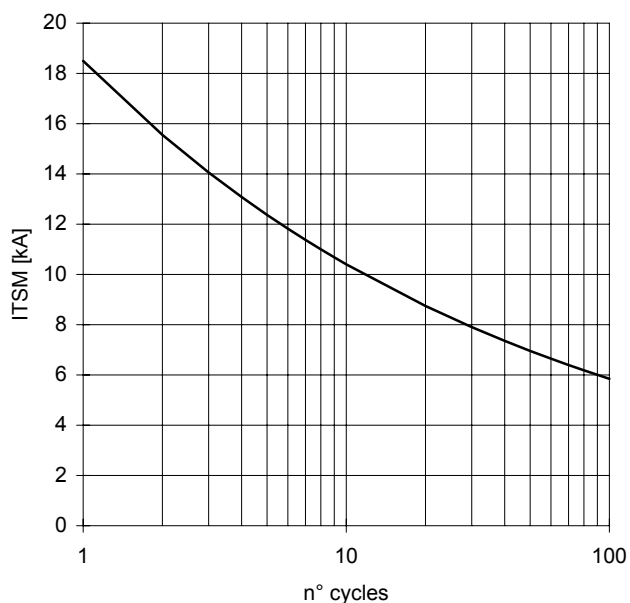


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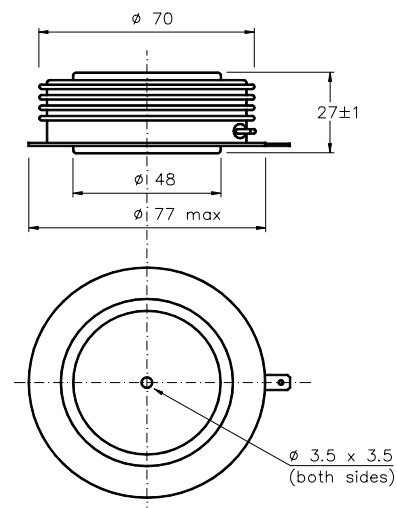
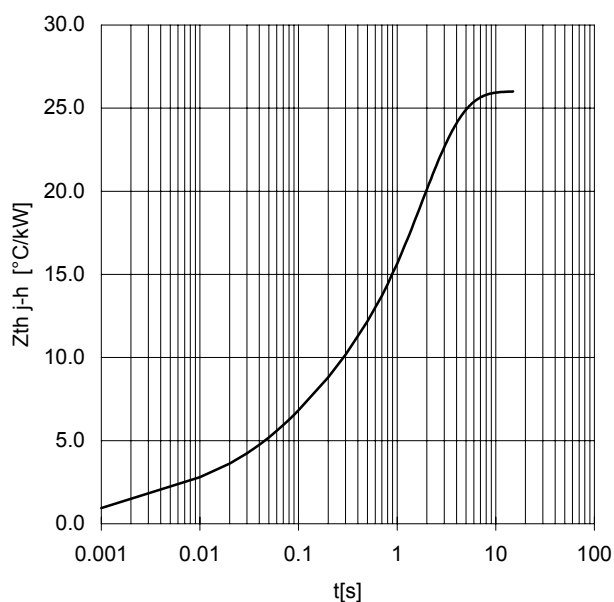
FORWARD CHARACTERISTIC
 $T_j = 150^\circ\text{C}$



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



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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