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POSEICO SPA

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RECTIFIER DIODE

AR507LT

Repetitive voltage up to **600 V**
Mean forward current **3560 A**
Surge current **30 kA**

FINAL SPECIFICATION

set 02 - ISSUE : 01

Symbol	Characteristic	Conditions	T _J [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		175	600	V
V _{RSM}	Non-repetitive peak reverse voltage		175	700	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	175	75	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		3560	A
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Tc=85°C, double side cooled		3700	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	175	30.2	kA
I ² t	I ² t			4560 x 1E3	A ² s
V _{FM}	Forward voltage	Forward current = 4500 A	175	1.44	V
V _{F(TO)}	Threshold voltage		175	0.87	V
r _F	Forward slope resistance		175	0.127	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		17	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		5	°C/kW
T _j	Operating junction temperature			-30 / 175	°C
F	Mounting force			20.0 / 22.0	kN
	Mass			150	g

ORDERING INFORMATION : AR507LT S 06

standard specification ☐ ☐ VRRM/100



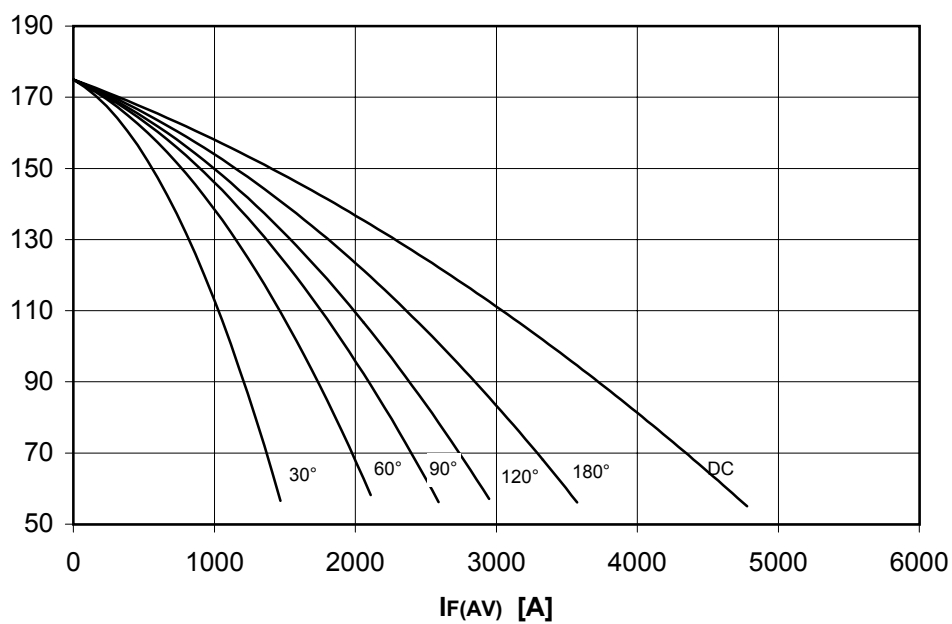
AR507LT RECTIFIER DIODE

FINAL SPECIFICATION set 02 - ISSUE : 01

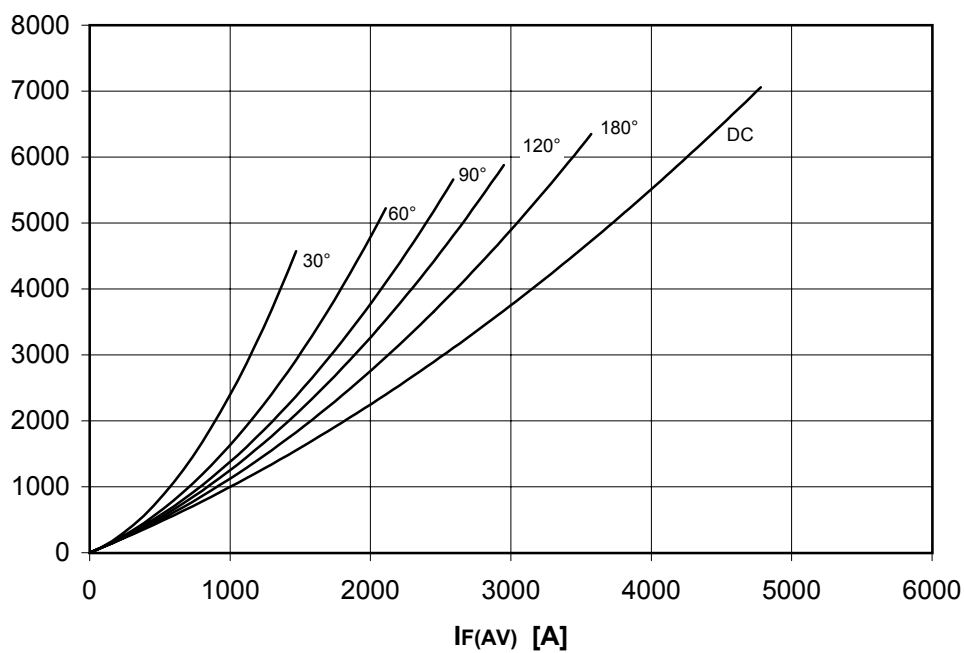
DISSIPATION CHARACTERISTICS

SQUARE WAVE

T_h [°C]



$P_F(AV)$ [W]



AR507LT RECTIFIER DIODE

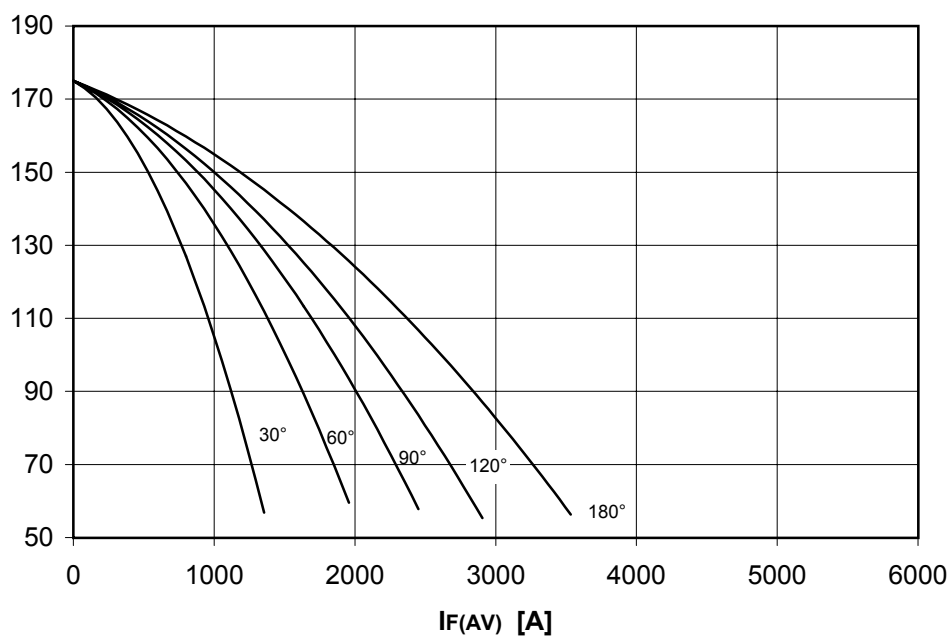


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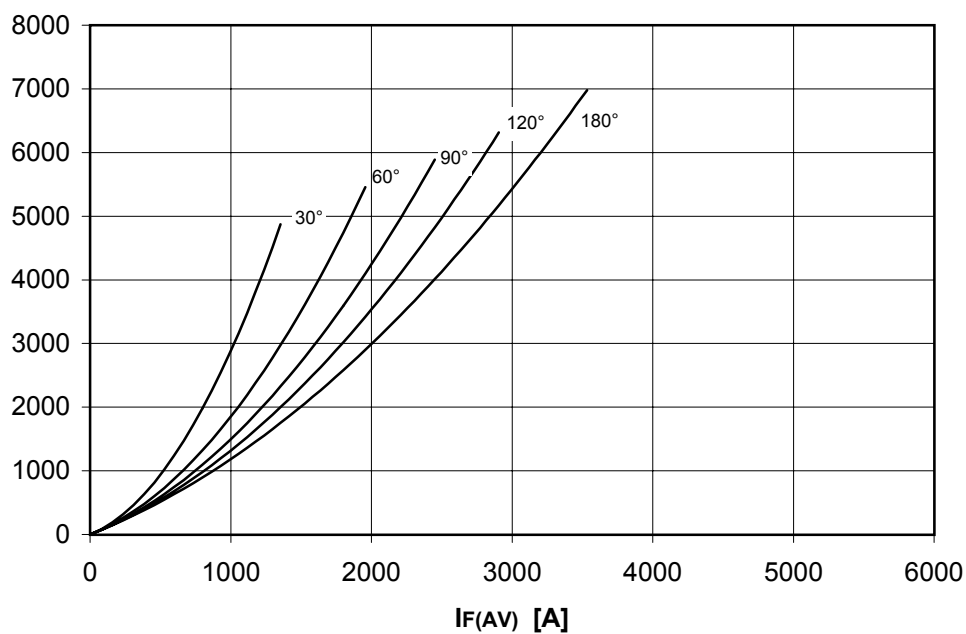
DISSIPATION CHARACTERISTICS

SINE WAVE

T_h [°C]



$P_F(AV)$ [W]

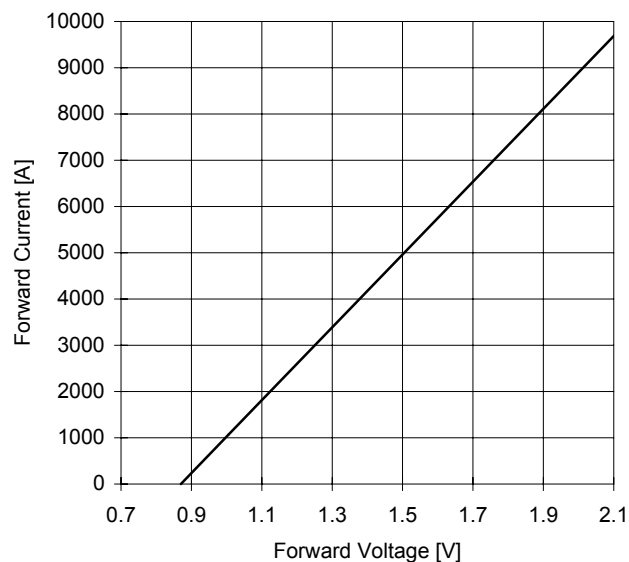


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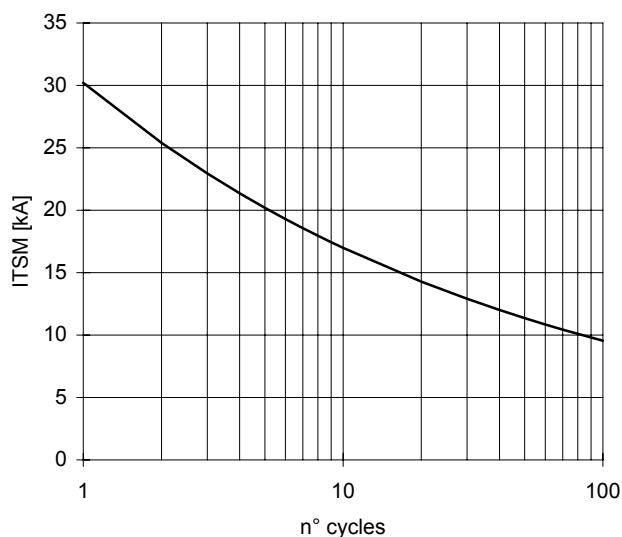


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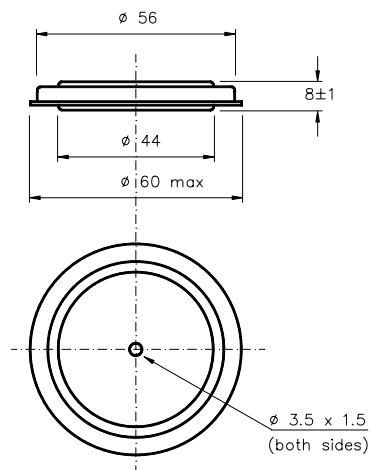
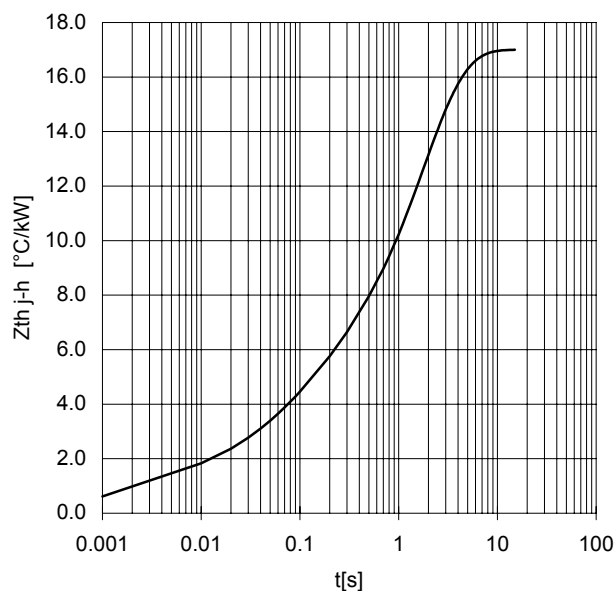
FORWARD CHARACTERISTIC
 $T_j = 175^\circ\text{C}$



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 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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