

RECTIFIER DIODE

AR480

Repetitive voltage up to

5000 V

Mean forward current

725 A

Surge current

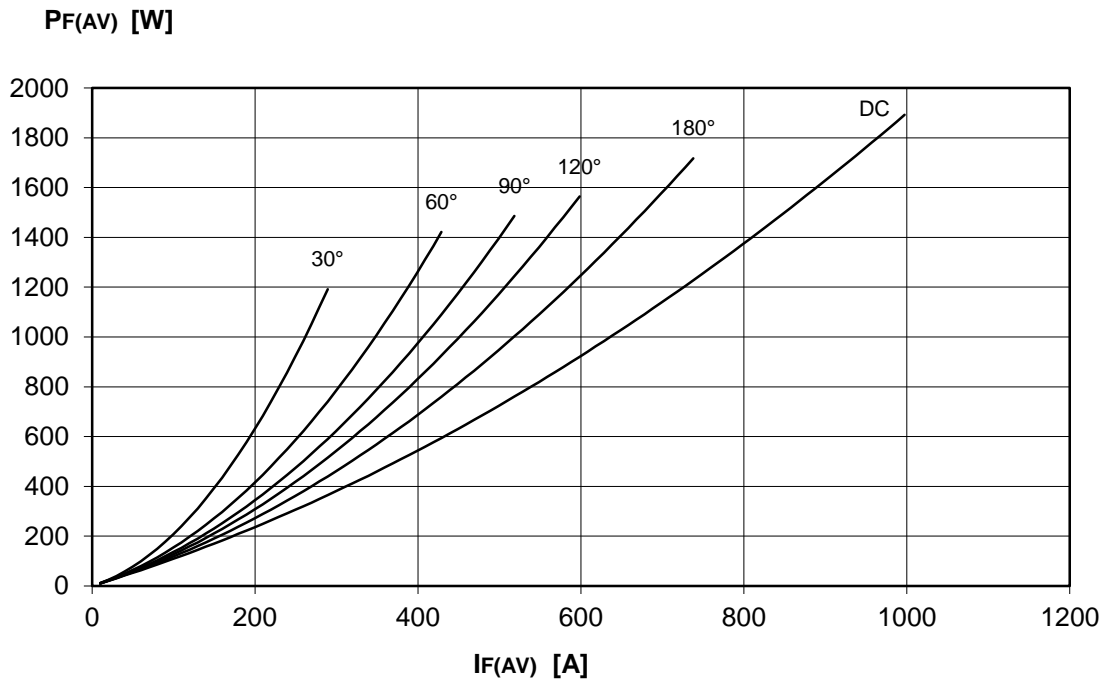
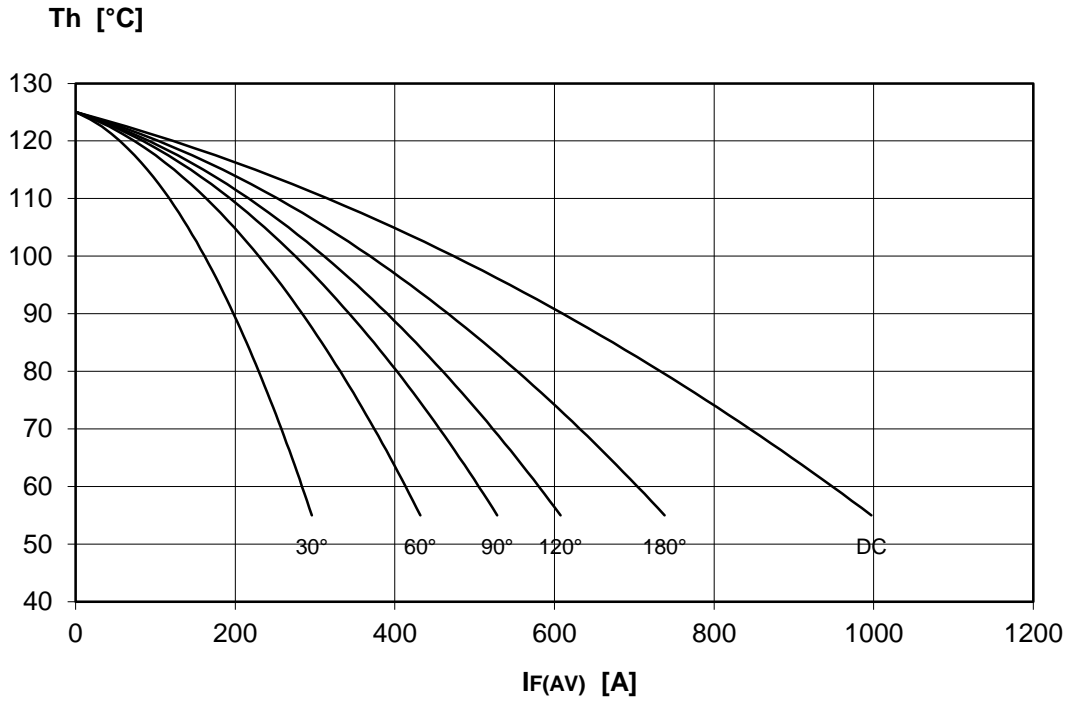
8 kA
FINAL SPECIFICATION

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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		125	5000	V
V _{RSM}	Non-repetitive peak reverse voltage		125	5100	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	125	70	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, Th=55°C, double side cooled		725	A
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, Tc=85°C, double side cooled		582	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	125	8	kA
I ² t	I ² t			320 x 10 ³	A ² s
V _{FM}	Forward voltage	Forward current = 1000 A	25	1,90	V
V _{F(TO)}	Threshold voltage		125	1,0	V
r _F	Forward slope resistance		125	0,9	mohm
SWITCHING					
t _{rr}	Reverse recovery time		125		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		37,0	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		7,0	°C/kW
T _j	Operating junction temperature			-30 / 125	°C
F	Mounting force			11.8 / 13.2	kN
	Mass			300	g
ORDERING INFORMATION : AR480 S 50 standard specification <input type="checkbox"/> <input type="checkbox"/> VRRM/100					

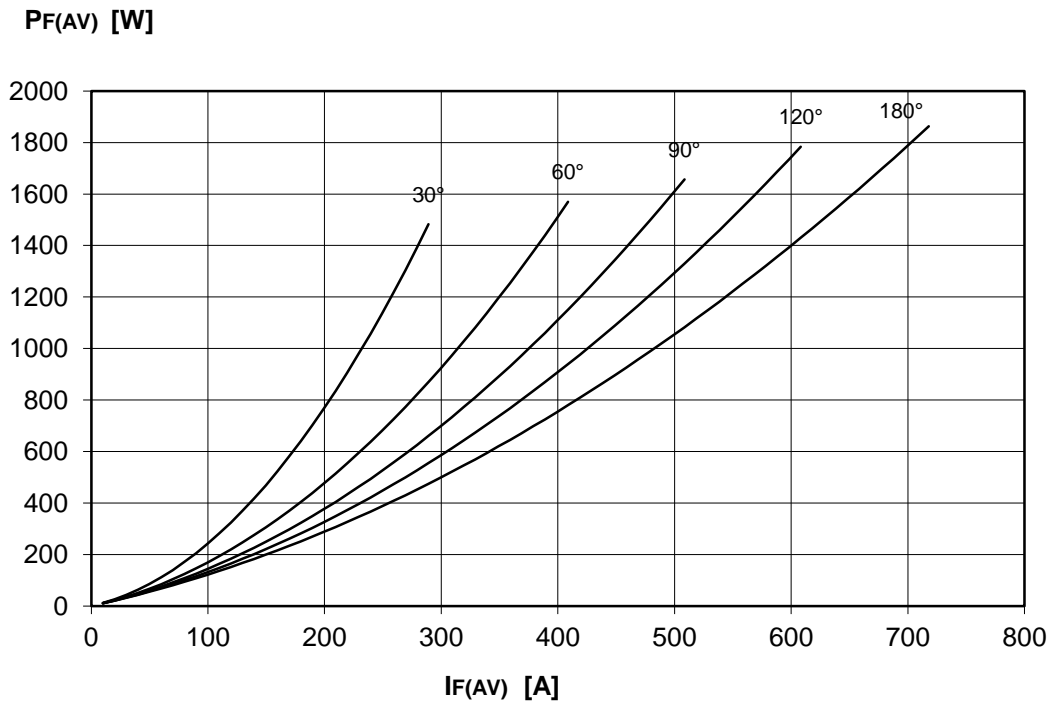
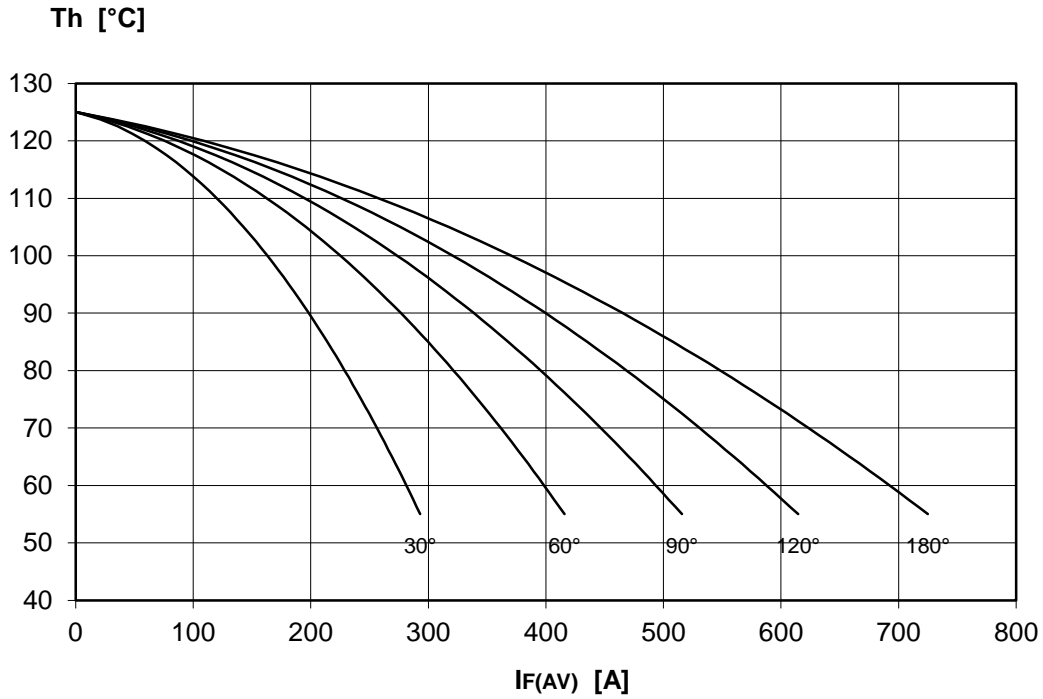
DISSIPATION CHARACTERISTICS

SQUARE WAVE



DISSIPATION CHARACTERISTICS

SINE WAVE

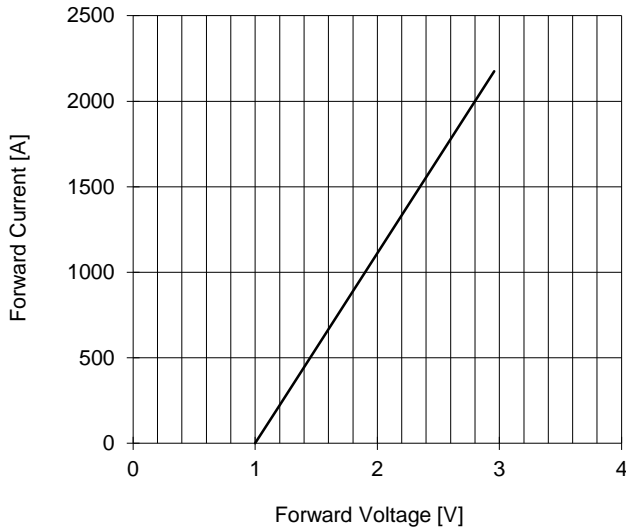


AR480 RECTIFIER DIODE

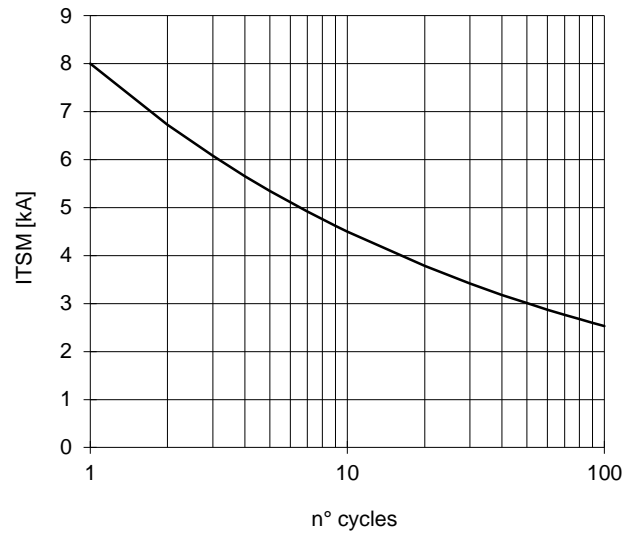


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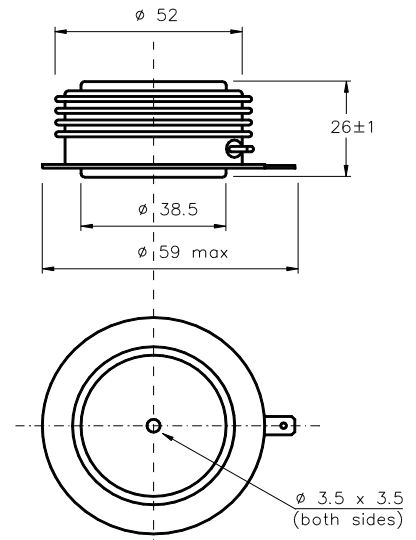
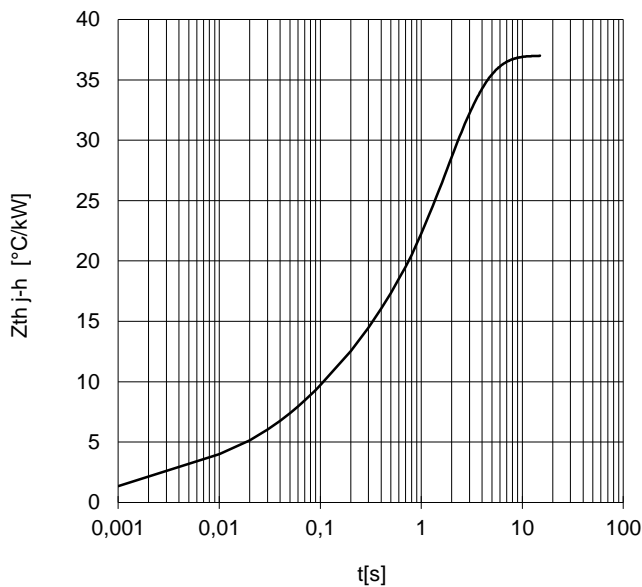
FORWARD CHARACTERISTIC
T_j = 125 °C



SURGE CHARACTERISTIC
T_j = 125 °C



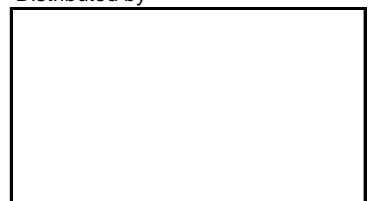
TRANSIENT THERMAL IMPEDANCE
DOUBLE SIDE COOLED



Dimensions
in mm



Distributed by



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.