

查询AT671供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

ANSALDO

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PHASE CONTROL THYRISTOR

AT671

Repetitive voltage up to **4500 V**
Mean on-state current **1085 A**
Surge current **13 kA**

FINAL SPECIFICATION

feb 97 - ISSUE : 02

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		125	4500	V
V _{RSM}	Non-repetitive peak reverse voltage		125	4600	V
V _{DRM}	Repetitive peak off-state voltage		125	4500	V
I _{RRM}	Repetitive peak reverse current	V=V _{RRM}	125	100	mA
I _{DRM}	Repetitive peak off-state current	V=V _{DRM}	125	100	mA
CONDUCTING					
I _{T(AV)}	Mean on-state current	180° sin, 50 Hz, Th=55°C, double side cooled		1085	A
I _{T(AV)}	Mean on-state current	180° sin, 50 Hz, Tc=85°C, double side cooled		945	A
I _{TSM}	Surge on-state current	sine wave, 10 ms	125	13	kA
I ² t	I ² t	without reverse voltage		845 x1E3	A ² s
V _T	On-state voltage	On-state current = 2000 A	25		V
V _{T(TO)}	Threshold voltage		125	1.2	V
r _T	On-state slope resistance		125	0.700	mohm
SWITCHING					
di/dt	Critical rate of rise of on-state current, min.	From 75% V _{DRM} up to 1200 A, gate 10V 5ohm	125	400	A/μs
dv/dt	Critical rate of rise of off-state voltage, min.	Linear ramp up to 75% of V _{DRM}	125	1000	V/μs
t _d	Gate controlled delay time, typical	V _D =200V, gate source 20V, 10 ohm, tr=.5 μs	25	3	μs
t _q	Circuit commutated turn-off time, typical	dV/dt = 20 V/μs linear up to 80% V _{DRM}		350	μs
Q _{rr}	Reverse recovery charge	di/dt=-60 A/μs, I= 1000 A	125		μC
I _{rr}	Peak reverse recovery current	V _R = 50 V			A
I _H	Holding current, typical	V _D =5V, gate open circuit	25		mA
I _L	Latching current, typical	V _D =12V, tp=30μs	25		mA
GATE					
V _{GT}	Gate trigger voltage	V _D =5V	25	3.5	V
I _{GT}	Gate trigger current	V _D =5V	25	400	mA
V _{GD}	Non-trigger gate voltage, min.	V _D =V _{DRM}	125	0.25	V
V _{FGM}	Peak gate voltage (forward)			30	V
I _{FGM}	Peak gate current			10	A
V _{RGM}	Peak gate voltage (reverse)			5	V
P _{GM}	Peak gate power dissipation	Pulse width 100 μs		150	W
P _G	Average gate power dissipation			2	W
MOUNTING					
R _{th(j-h)}	Thermal impedance, DC	Junction to heatsink, double side cooled		21	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		6	°C/kW
T _j	Operating junction temperature			-30 / 125	°C
F _{Mounting}	Mounting force			22.0 / 24.5	kN
M _{Mass}	Mass			520	g

ORDERING INFORMATION : AT671 S 45

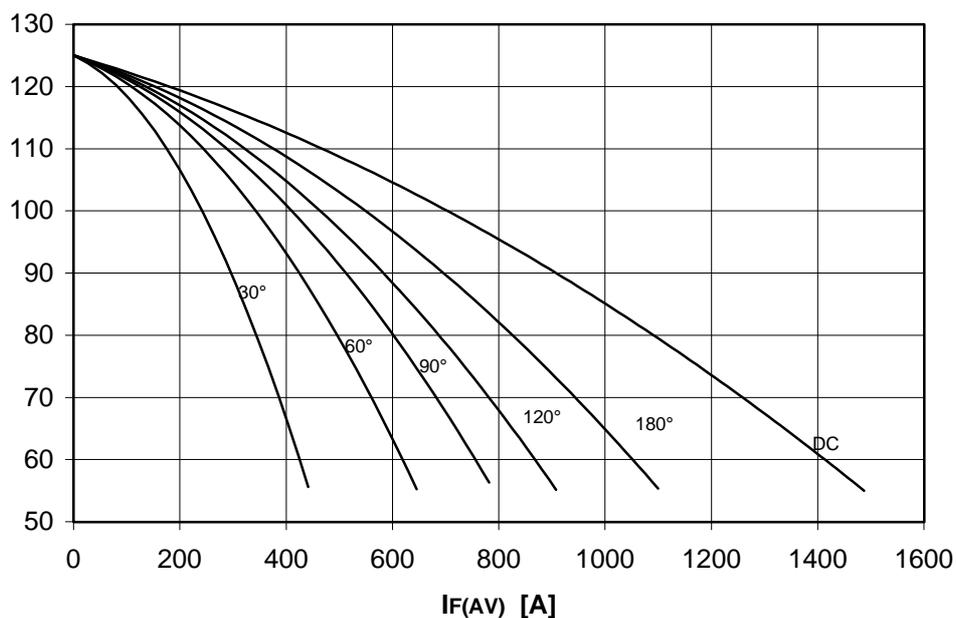
standard specification VDRM&VRRM/100



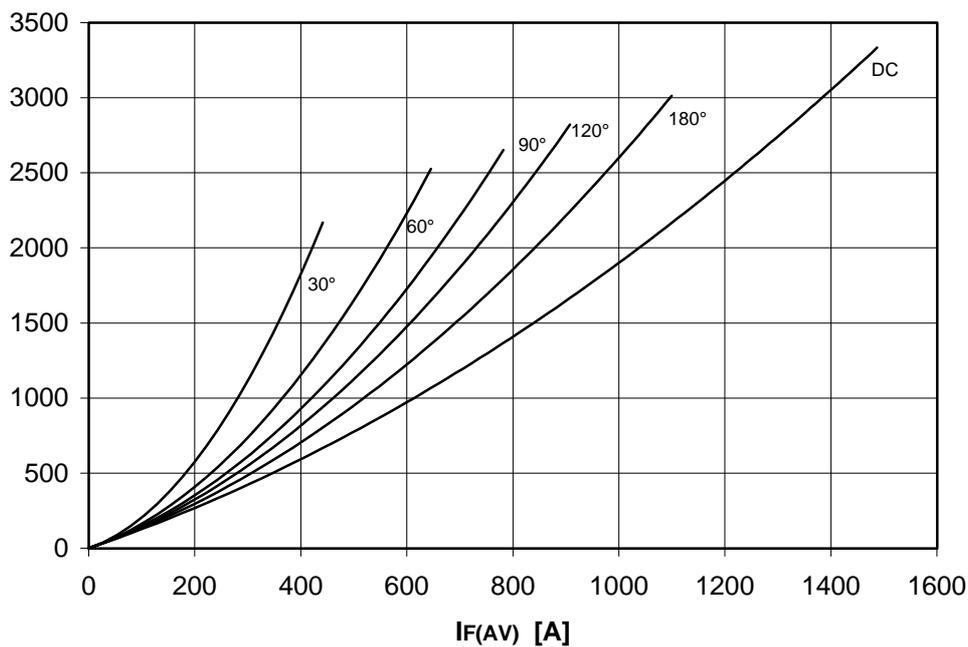
DISSIPATION CHARACTERISTICS

SQUARE WAVE

Th [°C]



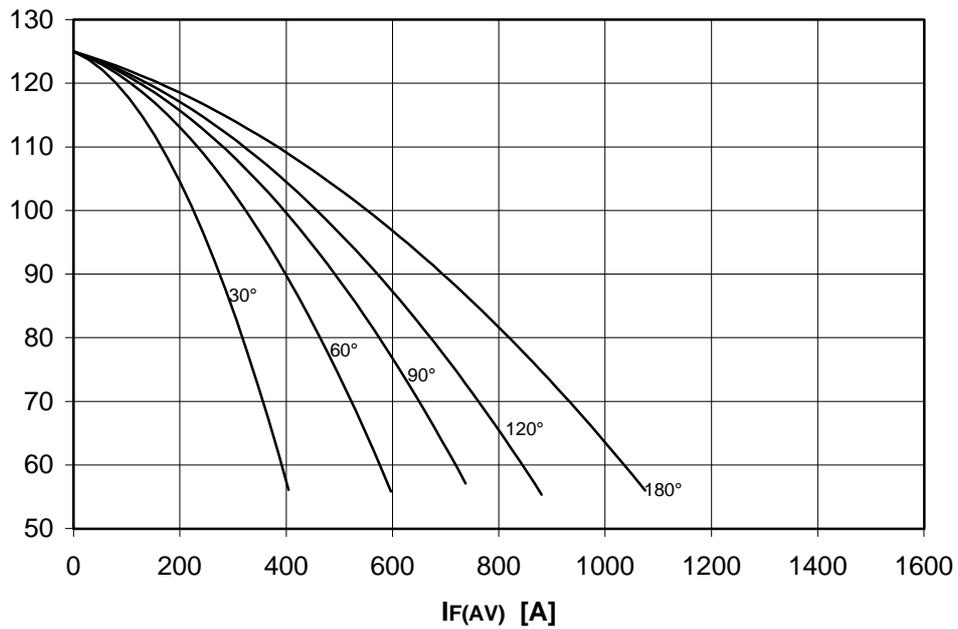
PF(AV) [W]



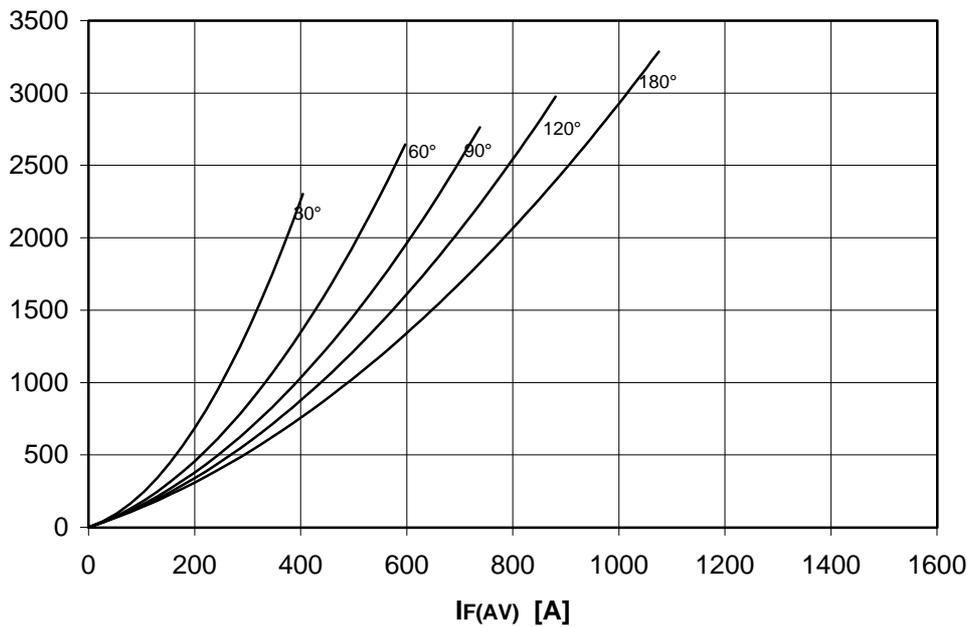
DISSIPATION CHARACTERISTICS

SINE WAVE

Th [°C]



PF(AV) [W]

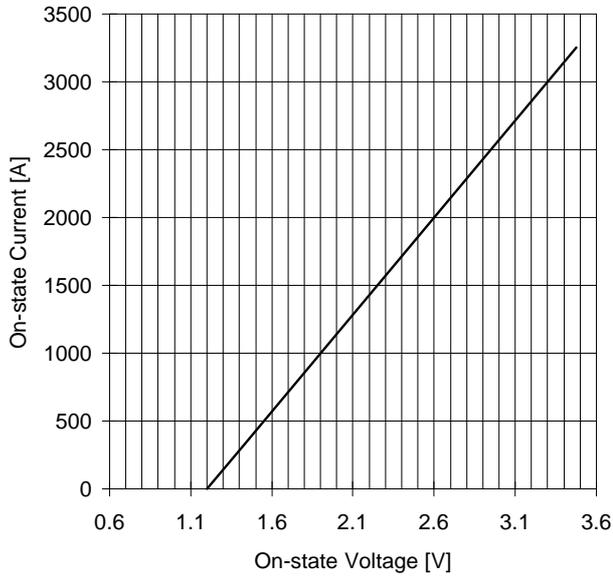


AT671 PHASE CONTROL THYRISTOR

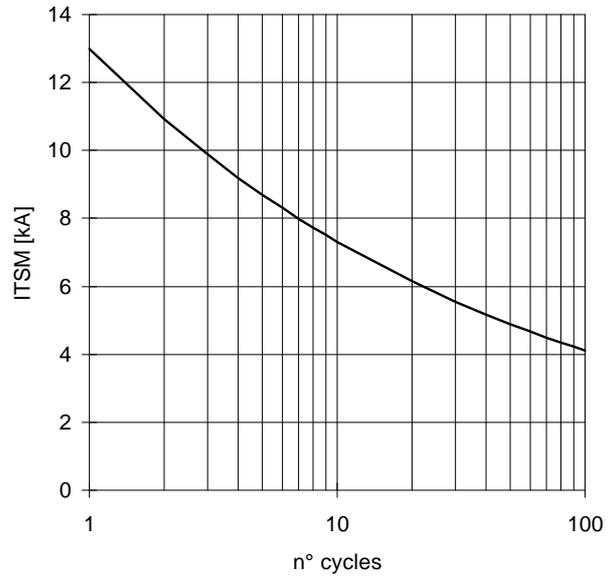
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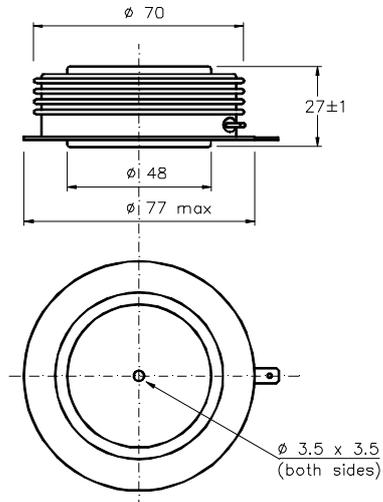
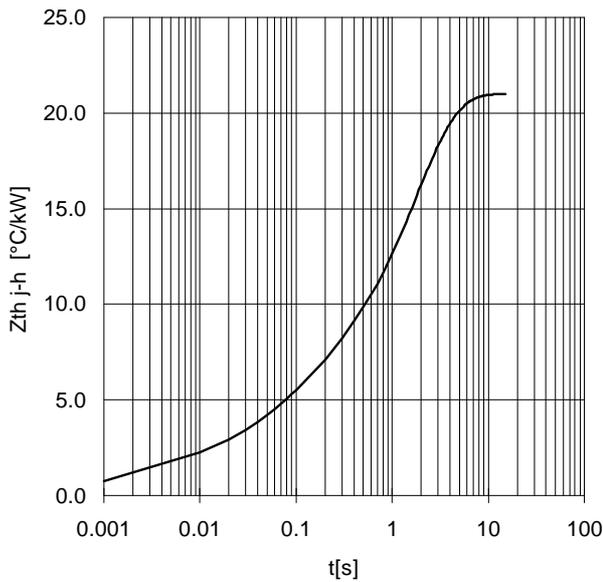
ON-STATE CHARACTERISTIC
T_j = 125 °C



SURGE CHARACTERISTIC
T_j = 125 °C



TRANSIENT THERMAL IMPEDANCE
DOUBLE SIDE COOLED



Dimensions in mm



Cathode terminal type DIN 46244 - A 4.8 - 0.8

Gate terminal type AMP 60598 - 1

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 ANSALDO 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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