

查询AT807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

AT807

Repetitive voltage up to **2400 V**
Mean on-state current **835 A**
Surge current **10 kA**

FINAL SPECIFICATION

Feb 97 - ISSUE : 04

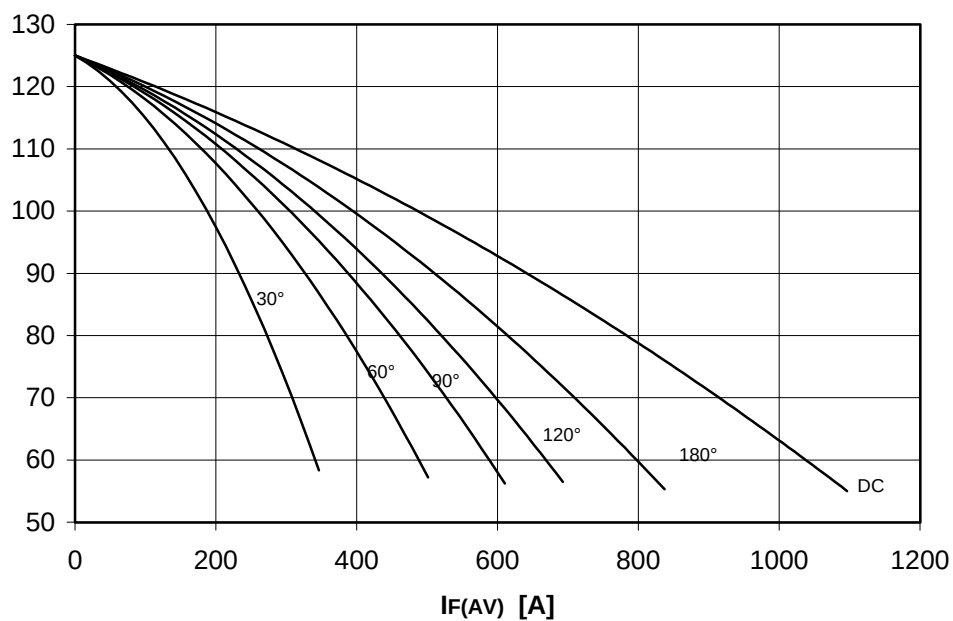
Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		125	2400	V
V _{RSM}	Non-repetitive peak reverse voltage		125	2500	V
V _{DRM}	Repetitive peak off-state voltage		125	2400	V
I _{RRM}	Repetitive peak reverse current	V=V _{RRM}	125	50	mA
I _{DRM}	Repetitive peak off-state current	V=V _{DRM}	125	50	mA
CONDUCTING					
I _{T(AV)}	Mean on-state current	180° sin, 50 Hz, Th=55°C, double side cooled		835	A
I _{T(AV)}	Mean on-state current	180° sin, 50 Hz, Tc=85°C, double side cooled		660	A
I _{TSM}	Surge on-state current	sine wave, 10 ms	125	10	kA
I ² t	I ² t	without reverse voltage		500 x1E3	A ² s
V _T	On-state voltage	On-state current = 1600 A	25	2	V
V _{T(TO)}	Threshold voltage		125	1.12	V
r _T	On-state slope resistance		125	0.552	mohm
SWITCHING					
di/dt	Critical rate of rise of on-state current, min.	From 75% V _{DRM} up to 900 A, gate 10V 5ohm	125	200	A/μs
dv/dt	Critical rate of rise of off-state voltage, min.	Linear ramp up to 70% of V _{DRM}	125	500	V/μs
t _d	Gate controlled delay time, typical	V _D =100V, gate source 25V, 10 ohm, tr=.5 μs	25	1.3	μs
t _q	Circuit commutated turn-off time, typical	dV/dt = 20 V/μs linear up to 75% V _{DRM}		320	μs
Q _{rr}	Reverse recovery charge	di/dt=-20 A/μs, I= 600 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	300	mA
I _L	Latching current, typical	V _D =5V, tp=30μs	25	700	mA
GATE					
V _{GT}	Gate trigger voltage	V _D =5V	25	3.5	V
I _{GT}	Gate trigger current	V _D =5V	25	250	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		37	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		7	°C/kW
T _j	Operating junction temperature			-30 / 125	°C
F	Mounting force			11.8 / 13.2	kN
Mass				300	g
ORDERING INFORMATION : AT807 S 24					
standard specification ☐ VDRM&VRRM/100 ☐					



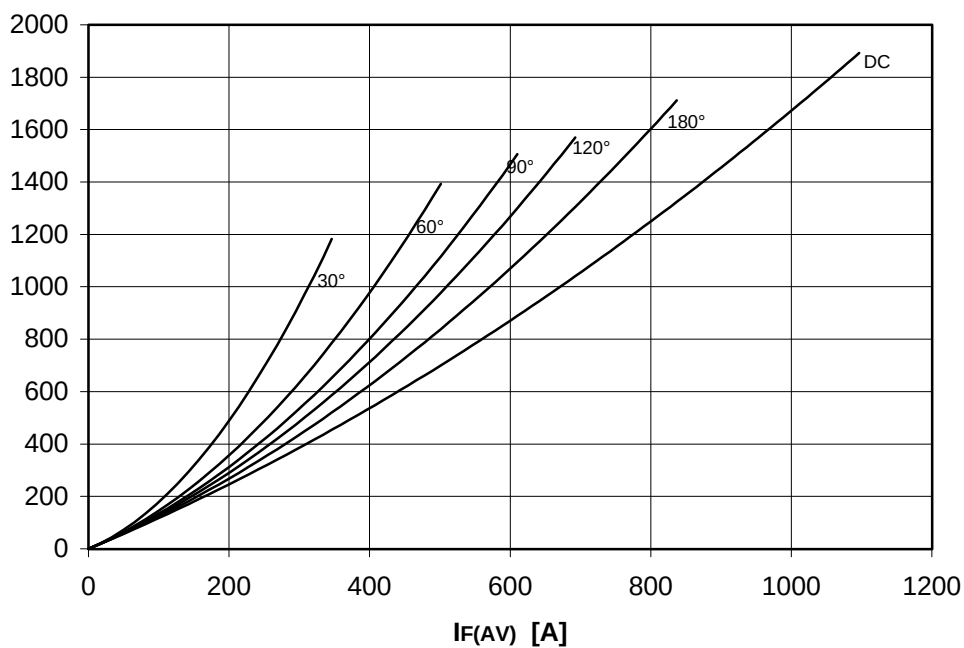
DISSIPATION CHARACTERISTICS

SQUARE WAVE

Th [°C]



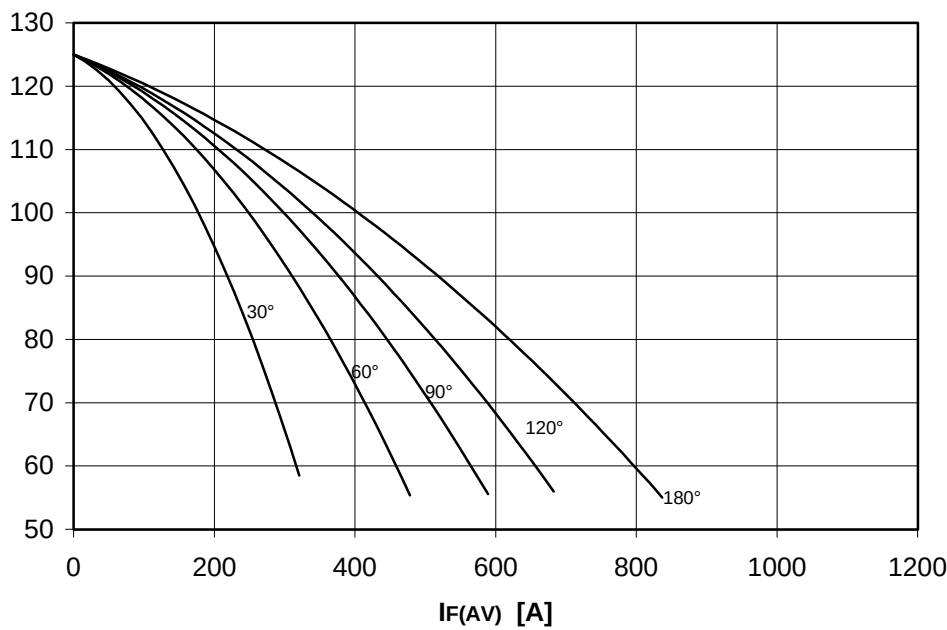
PF(AV) [W]



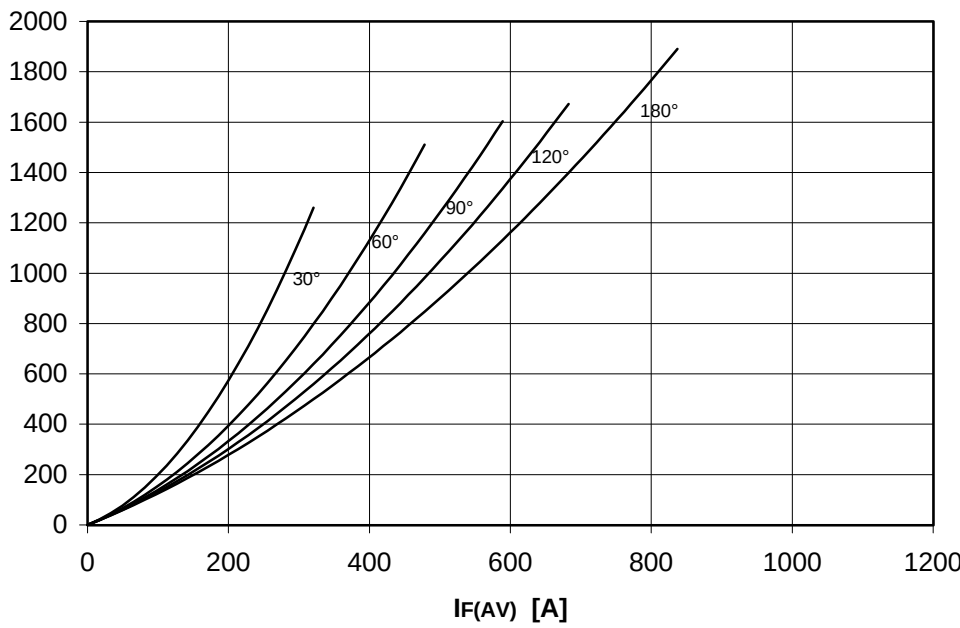
DISSIPATION CHARACTERISTICS

SINE WAVE

Th [°C]



PF(AV) [W]

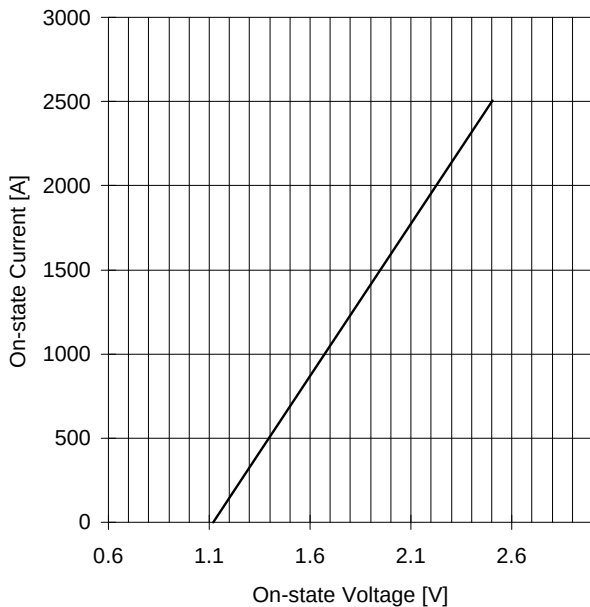


AT807 PHASE CONTROL THYRISTOR

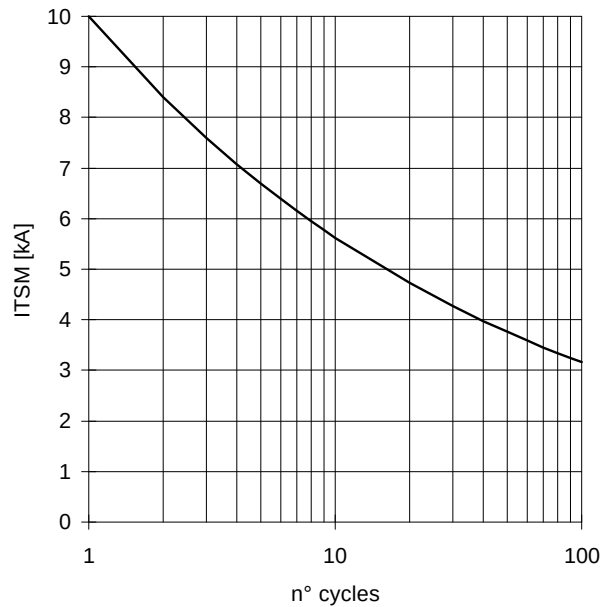
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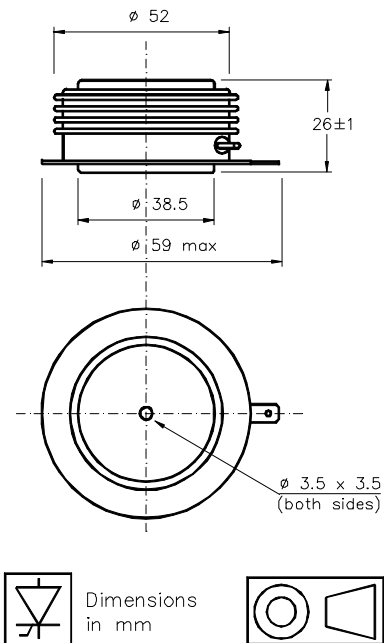
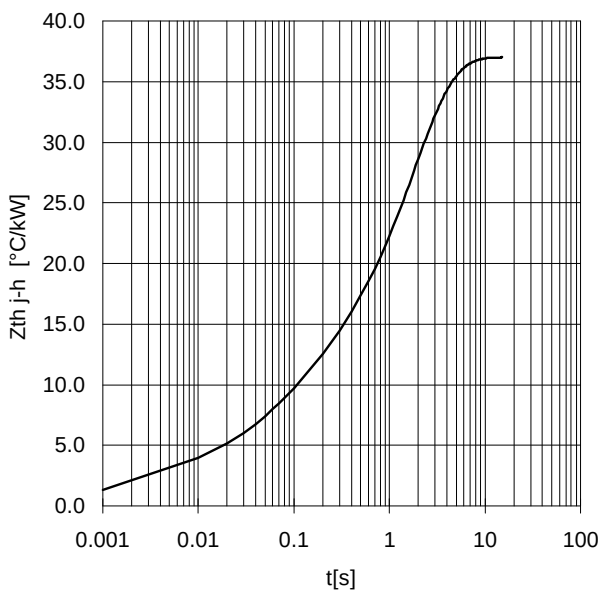
ON-STATE CHARACTERISTIC
 $T_J = 125\text{ }^{\circ}\text{C}$



SURGE CHARACTERISTIC
 $T_J = 125\text{ }^{\circ}\text{C}$



TRANSIENT THERMAL IMPEDANCE
DOUBLE SIDE COOLED



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

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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