

查询ARF240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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FAST RECOVERY DIODE

ARF240

Repetitive voltage up to **2500 V**
Mean forward current **280 A**
Surge current **3 kA**

FINAL SPECIFICATION

feb 97 - ISSUE : 04

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	2500	V
V _{RSM}	Non-repetitive peak reverse voltage		150	2600	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	150	50	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		280	A
I _{F(AV)}	Mean forward current	180° square,50 Hz,Th=55°C,double side cooled		285	A
I _{FSM}	Surge forward current	Sine wave, 10 ms	150	3	kA
I ² t	I ² t	reapplied reverse voltage up to 50% VRSM		45 x1E3	A²s
V _{FM}	Forward voltage	Forward current 1000 A	25	4.8	V
V _{F(TO)}	Threshold voltage		150	1.50	V
r _F	Forward slope resistance		150	3.00	mohm
SWITCHING					
t _{rr}	Reverse recovery time	I _F = 200 A di/dt = 80 A/μs VR = 100 V	150	2.0	μs
Q _{rr}	Reverse recovery charge			90	μC
I _{rr}	Peak reverse recovery current			90	A
s	Softness (s-factor), min			0.4	
V _{FR}	Peak forward recovery	di/dt = 400 A/μs	150	30	V
MOUNTING					
R _{th(j-h)}	Thermal impedance	Junction to heatsink, double side cooled		95	°C/kW
T _j	Operating junction temperature			-30 / 150	°C
F	Mounting force			4.5 / 5.0	kN
	Mass			55	g

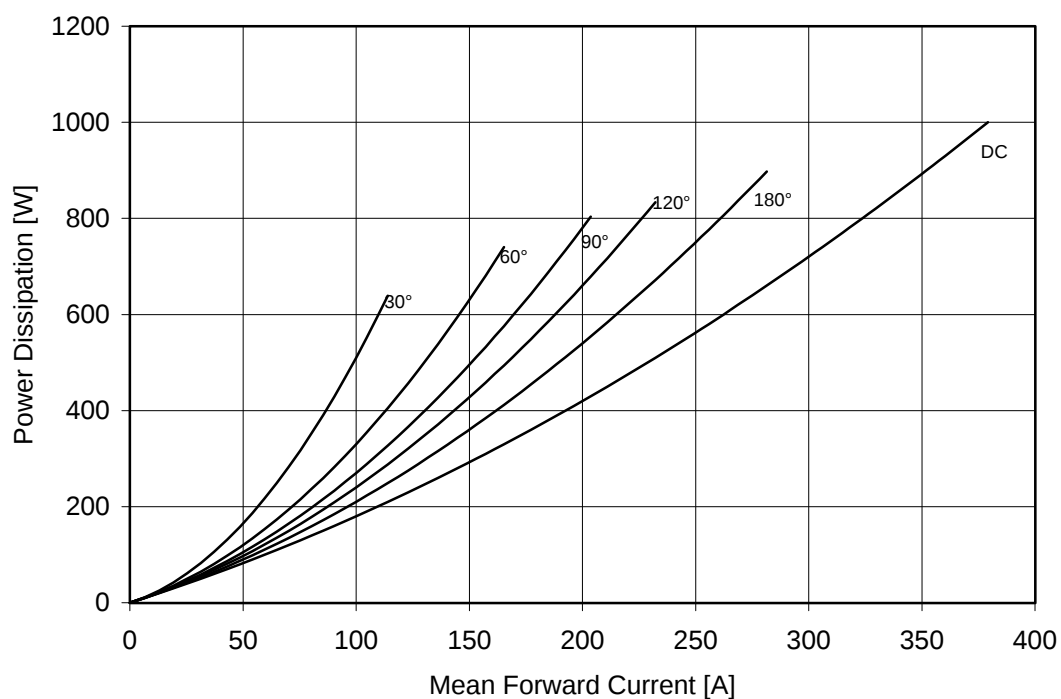
ORDERING INFORMATION : ARF240 S 25

standard specification ☐ ☐ VRRM/100

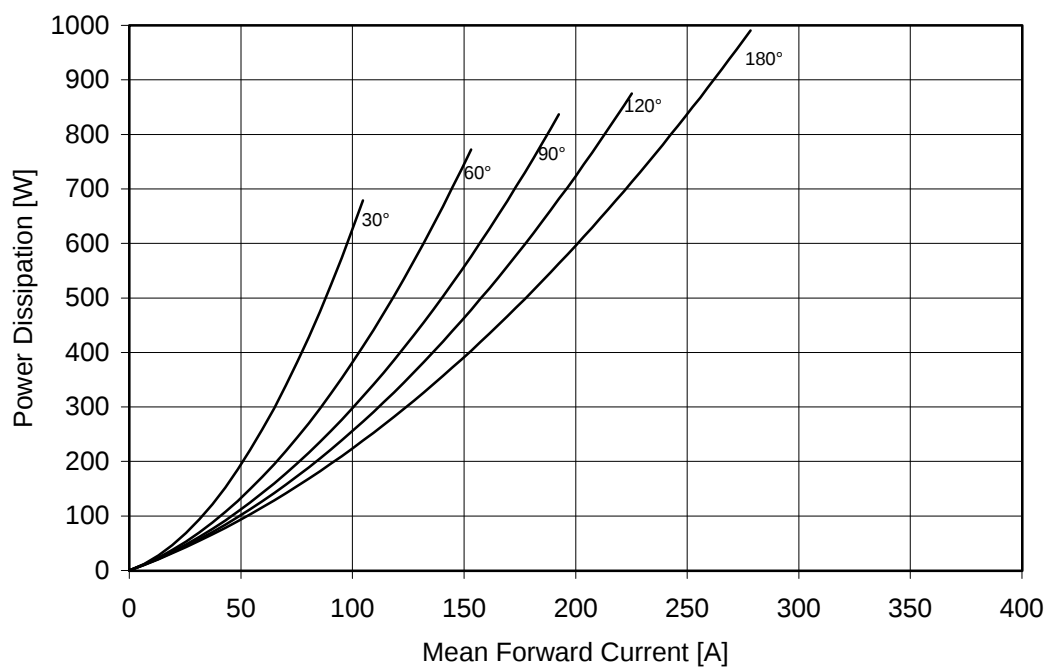


DISSIPATION CHARACTERISTICS

SQUARE WAVE



SINE WAVE



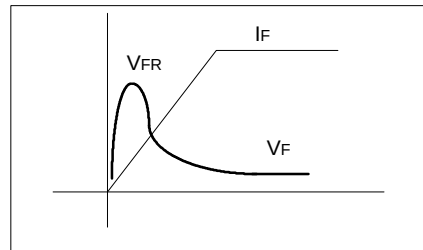
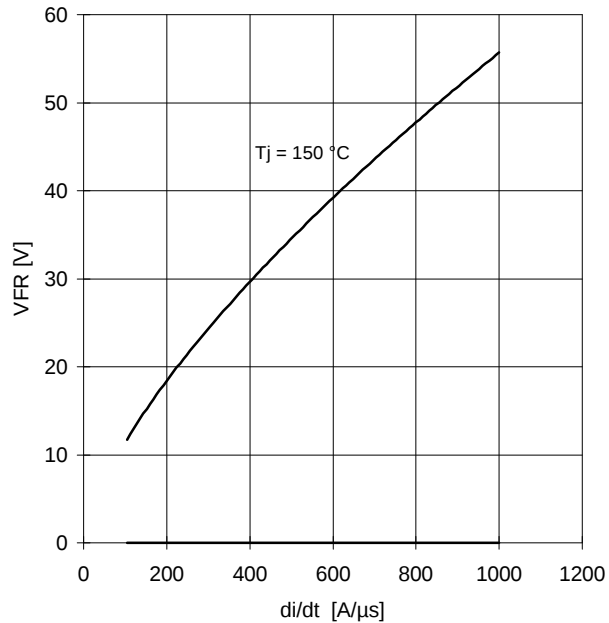
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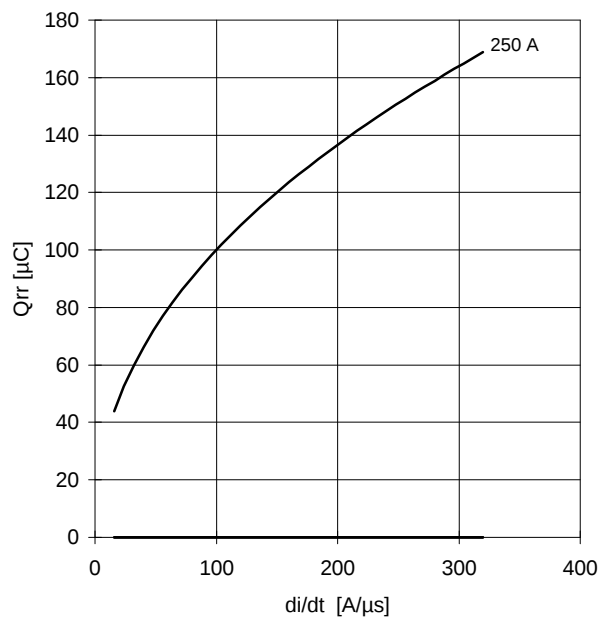
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SWITCHING CHARACTERISTICS

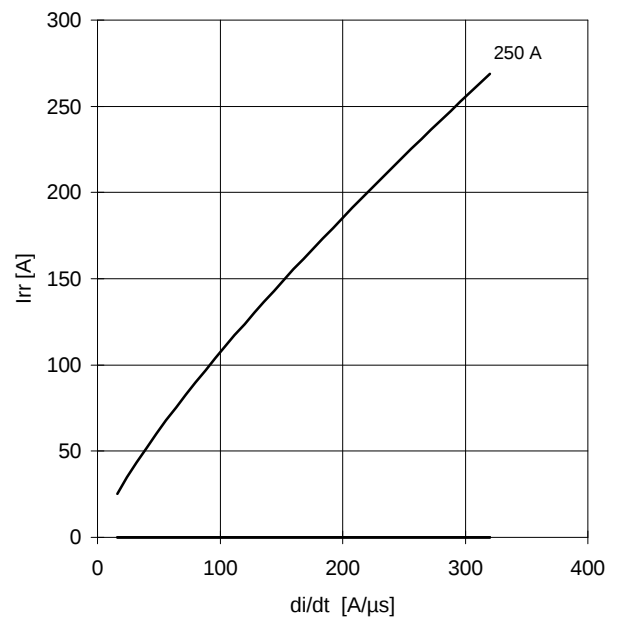
FORWARD RECOVERY VOLTAGE



REVERSE RECOVERY CHARGE $T_j = 150^\circ\text{C}$



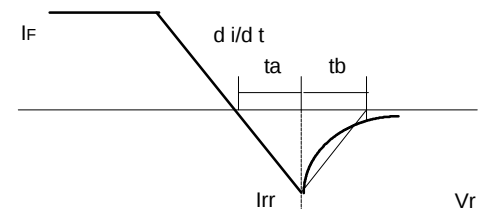
REVERSE RECOVERY CURRENT $T_j = 150^\circ\text{C}$



$$t_a = I_{rr} / (di/dt) \quad t_b = t_{rr} - t_a$$

$$\text{Softness (s factor)} \quad s = t_b / t_a$$

$$\text{Energy dissipation during recovery } E_r = V_r \cdot (Q_{rr} - I_{rr} \cdot t_a / 2)$$

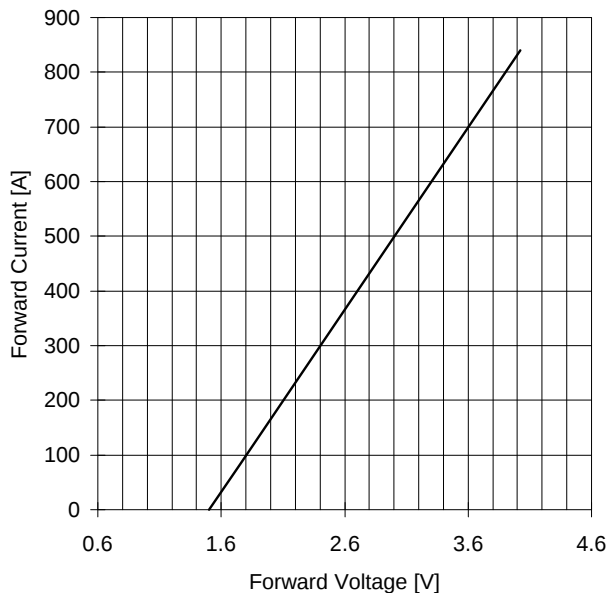


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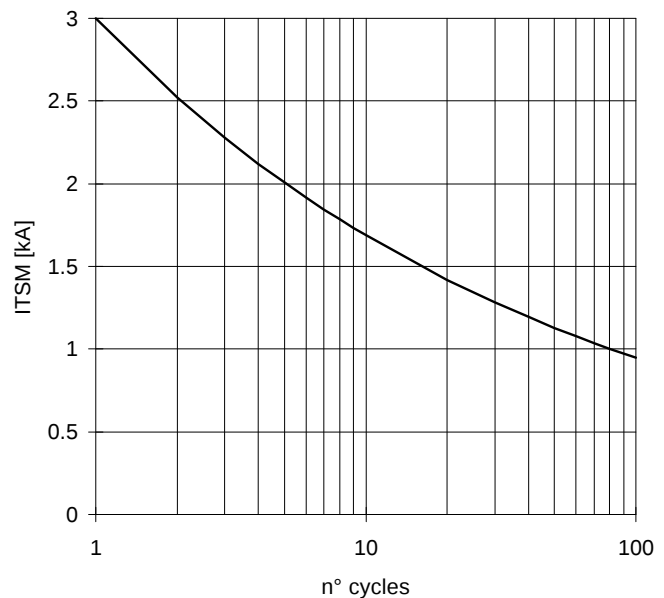
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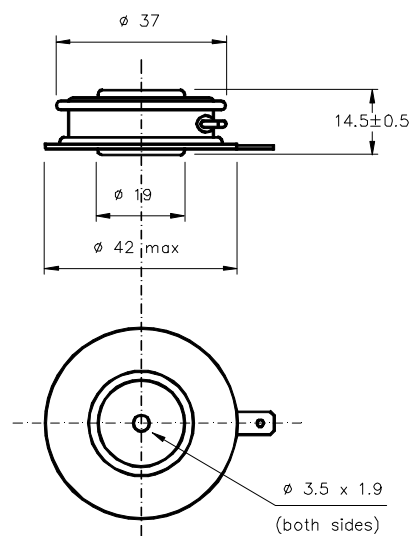
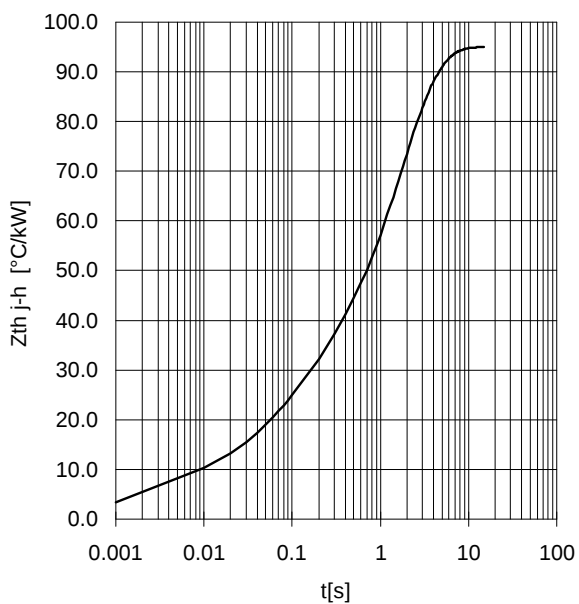
FORWARD CHARACTERISTIC
 $T_j = 150^\circ\text{C}$



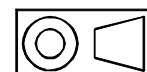
SURGE CHARACTERISTIC
 $T_j = 150^\circ\text{C}$



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 $< .03$ mm and roughness $< 2 \mu\text{m}$.

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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