

查询ARF260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

ARF260

Repetitive voltage up to **3300 V**
Mean forward current **190 A**
Surge current **3 kA**

FINAL SPECIFICATION

ott 97 - ISSUE : 02

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		125	3300	V
V _{RSM}	Non-repetitive peak reverse voltage		125	3400	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	125	50	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		190	A
I _{F(AV)}	Mean forward current	180° square,50 Hz,Th=55°C,double side cooled		190	A
I _{FSM}	Surge forward current	Sine wave, 10 ms	125	3	kA
I ² t	I ² t	reapplied reverse voltage up to 50% VRSM		45 x1E3	A²s
V _{FM}	Forward voltage	Forward current 100 A	125	2.37	V
V _{F(TO)}	Threshold voltage		125	1.95	V
r _F	Forward slope resistance		125	4.20	mohm
SWITCHING					
t _{rr}	Reverse recovery time	I _F = 500 A di/dt = 100 A/μs VR = 50 V	125	1.6	μs
Q _{rr}	Reverse recovery charge			70	μC
I _{rr}	Peak reverse recovery current			90	A
s	Softness (s-factor), min			0.5	
V _{FR}	Peak forward recovery	di/dt = 150 A/μs	125	14	V
MOUNTING					
R _{th(j-h)}	Thermal impedance	Junction to heatsink, double side cooled		95	°C/kW
T _j	Operating junction temperature			-30 / 125	°C
F	Mounting force			4.5 / 5.0	kN
	Mass			55	g

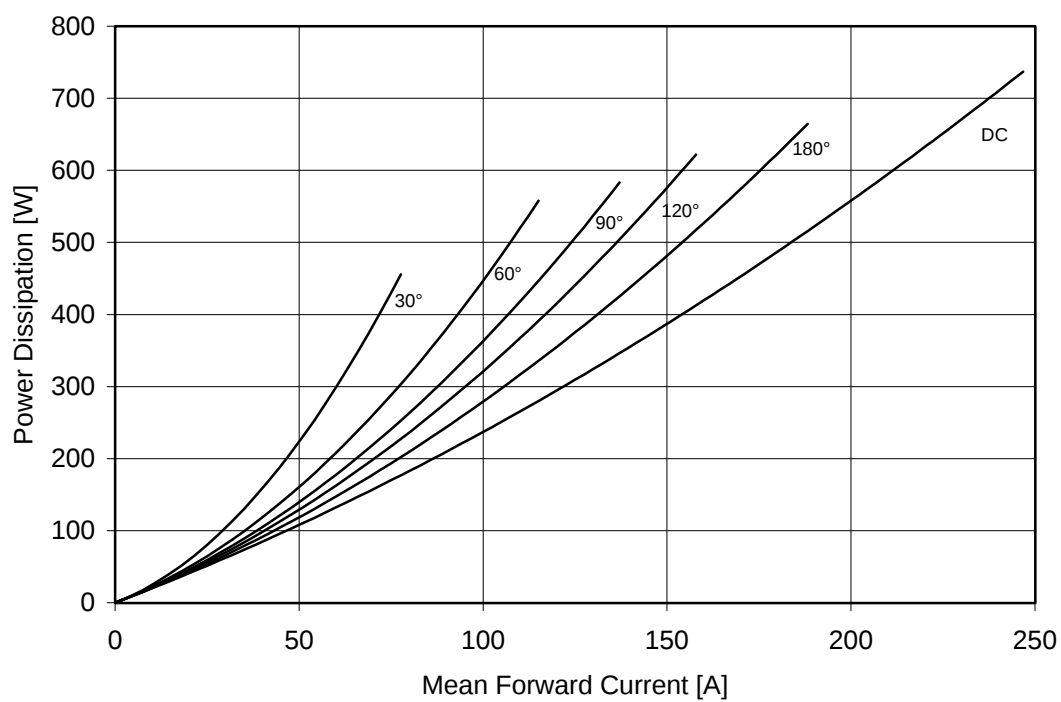
ORDERING INFORMATION : ARF260 S 33

standard specification ☐ ☐ VRRM/100

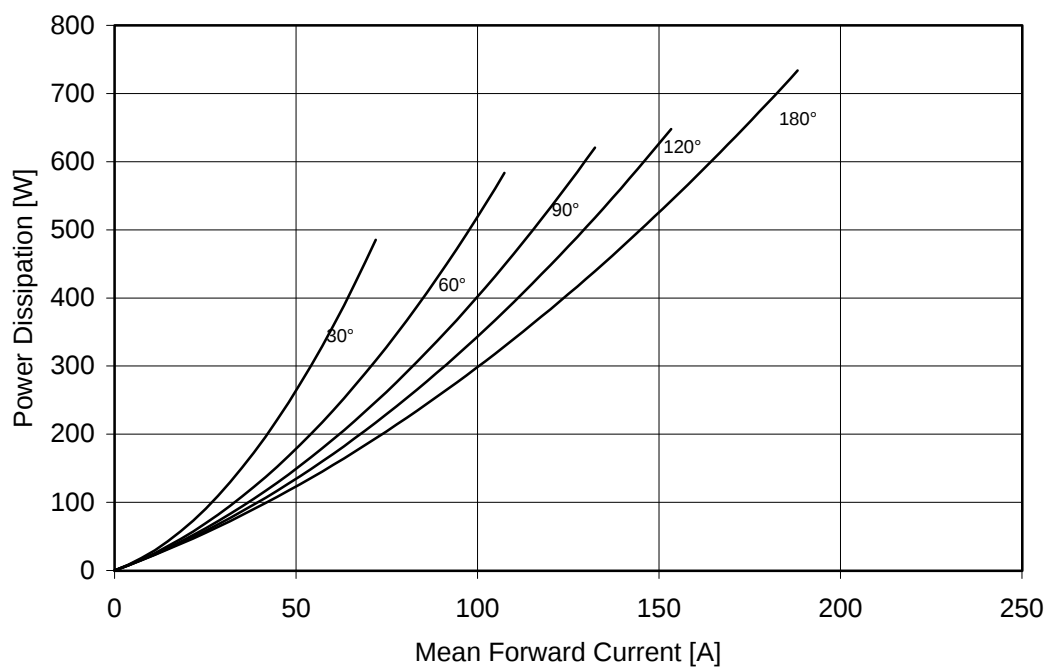


DISSIPATION CHARACTERISTICS

SQUARE WAVE

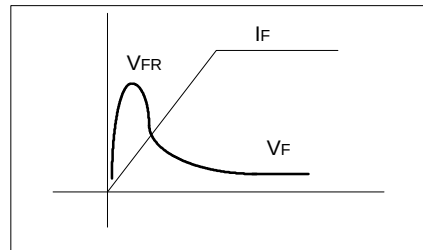
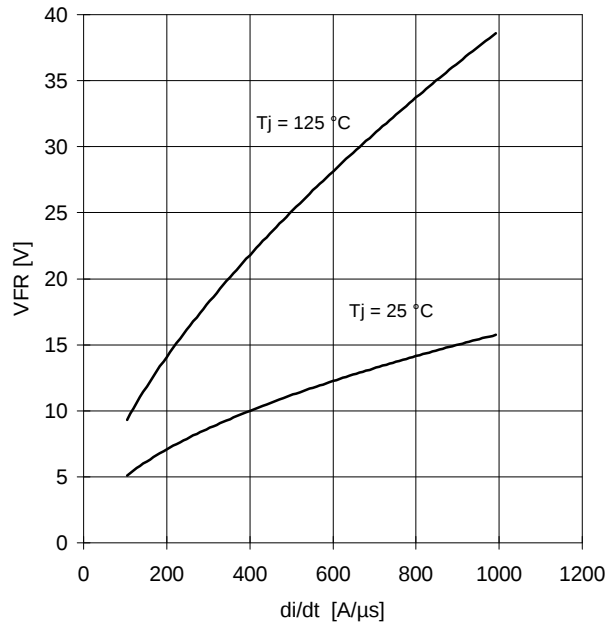


SINE WAVE

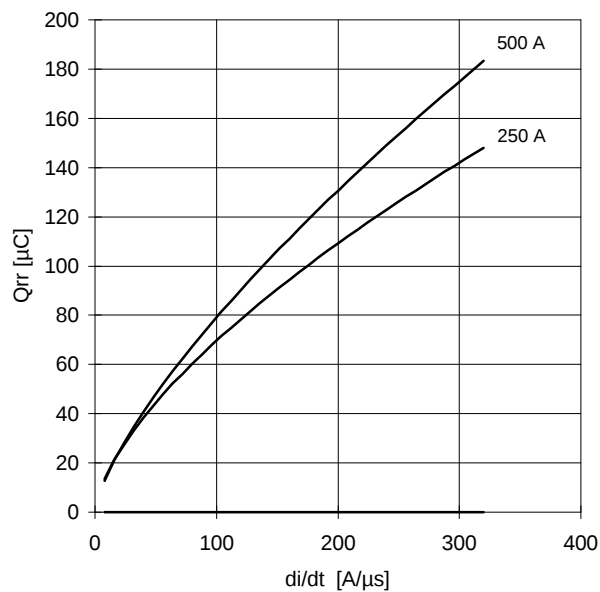


SWITCHING CHARACTERISTICS

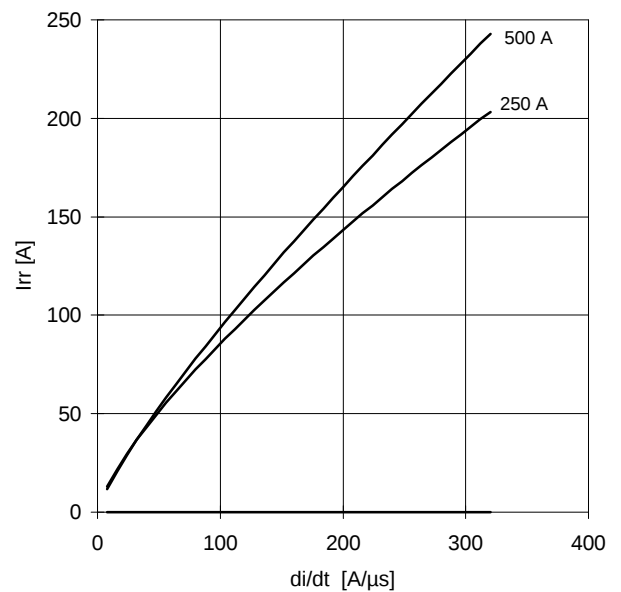
FORWARD RECOVERY VOLTAGE



REVERSE RECOVERY CHARGE $T_j = 125\text{ }^{\circ}\text{C}$



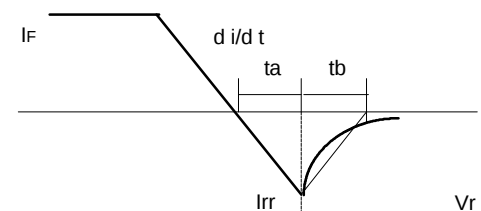
REVERSE RECOVERY CURRENT $T_j = 125\text{ }^{\circ}\text{C}$



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

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

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

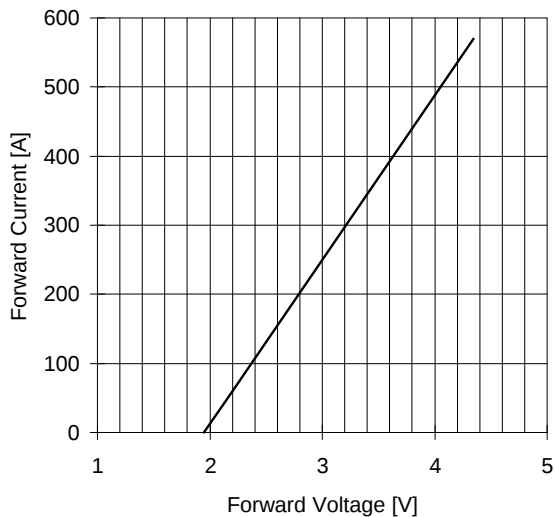


ARF260 FAST RECOVERY DIODE

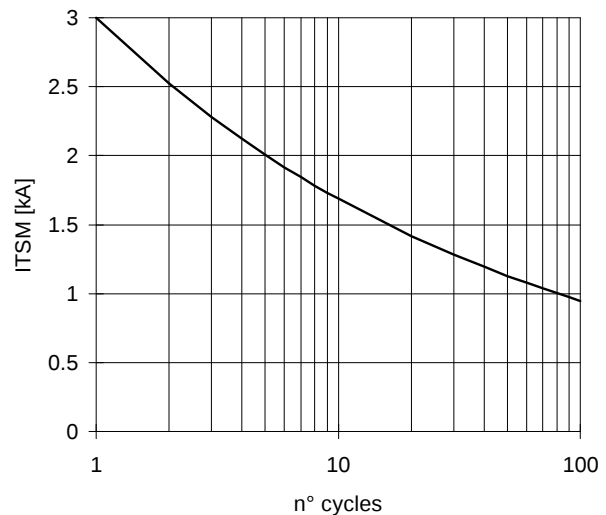
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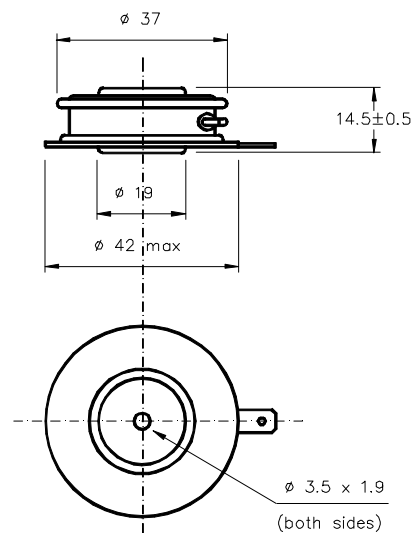
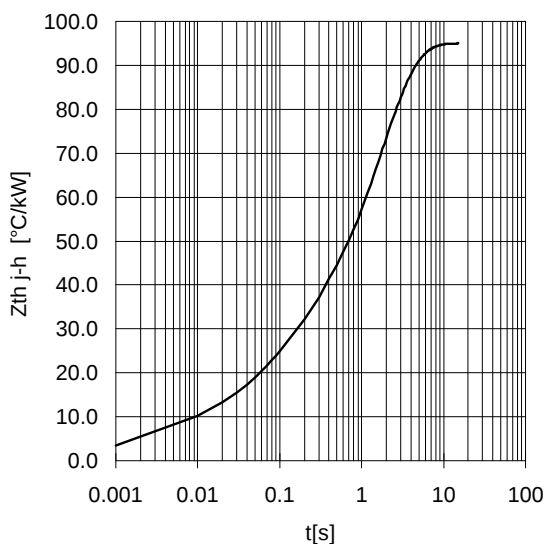
FORWARD CHARACTERISTIC
 $T_j = 125^\circ\text{C}$



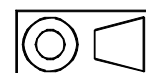
SURGE CHARACTERISTIC
 $T_j = 125^\circ\text{C}$



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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