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FAST RECOVERY DIODE

ARF462

FOR IGBT,IEGT,GCT APPLICATIONS
SNUBBERLESS OPERATION
LOW LOSSES SOFT RECOVERY

Repetitive voltage up to Mean forward current Surge current

4500 V 435 A 10 kA

TARGET SPECIFICATION

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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCK	KING				
V RRM	Repetitive peak reverse voltage		125	4500	V
V RSM	Non-repetitive peak reverse voltage		125	4600	V
I RRM	Repetitive peak reverse current	V=VRRM	125	50	mA
V DC LINK	Permanent DC voltage		125	2500	V
COND	JCTING				
l f (AV)	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		435	Α
l F (AV)	Mean forward current	180° square,50 Hz,Th=55°C,double side cooled		440	Α
I FSM	Surge forward current	Sine wave, 10 ms reapplied reverse voltage up to 50% VRSM	125	10	kA
²	l² t			500 x1E3	A²s
V FM	Forward voltage	Forward current = 1800 A	25	5.22	V
V F(TO)	Threshold voltage		125	2.70	V
rF	Forward slope resistance		125	1.400	mohm
SWITC	HING				
Q rr	Reverse recovery charge	I F = 1000 A di/dt= 250 A/μs VR = 100 V	125	500	μC
l rr	Peak reverse recovery current		125	360	Α
t rr	Reverse recovery time	IF = 1000 A			μs
Q rr	Reverse recovery charge	di/dt= 1000 A/μs VR = 1800 V		1150	μC
l rr	Peak reverse recovery current		125	900	Α
S	Softness (s-factor), min				
E off	Turn off energy dissipation				J
V FR	Peak forward recovery	di/dt= 400 A/μs	125	38	V
MOUN	TING				
R th(j-h)	Thermal impedance	Junction to heatsink, double side cooled		37	°C/kW
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		10	°C/kW
Тj	Operating junction temperature			-30 / 125	°C
F	Mounting force			11.8 / 13.2	kN
	Mass			300	g

VRRM/100

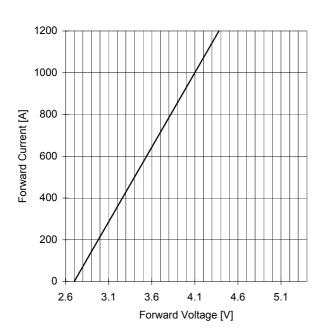
standard specification

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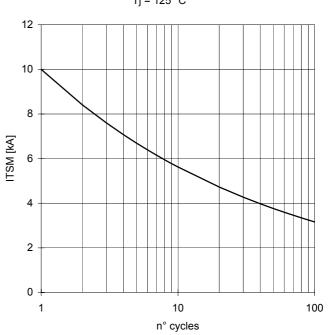


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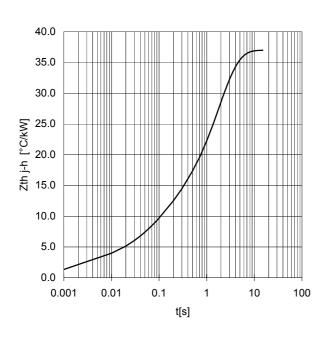
FORWARD CHARACTERISTIC Tj = 125 °C

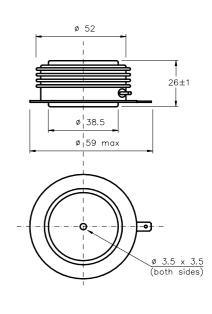


SURGE CHARACTERISTIC Tj = 125 °C



TRANSIENT THERMAL IMPEDANCE DOUBLE SIDE COOLED

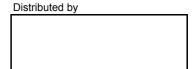




All the characteristics given in this data sheet are guaranteed only with uniform clamping force, cleaned and lubricated heatsink, surfaces with flatness < .03 mm and roughness < 2 μ m.

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 (simbols over shaded background) and characteristics is reported.



Dimensions

in mm