

ANSALDO**Ansaldo Trasporti s.p.a.
Unita' Semiconduttori**Via N. Lorenzi 8 - I 16152 GENOVA - ITALY
Tel. int. +39/(0)10 6556549 - (0)10 6556488
Fax Int. +39/(0)10 6442510
Tx 270318 ANSUSE I -**RECTIFIER DIODE****AUS601****NEW ULTRA SLIM**

Repetitive voltage up to

200 V

Mean forward current

11310 A

Surge current

60 kA**TARGET SPECIFICATION**

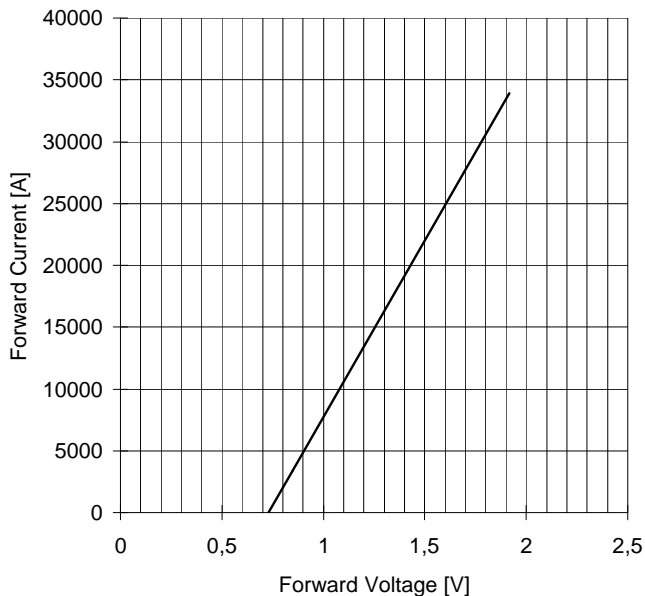
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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		190	200	V
V _{RSM}	Non-repetitive peak reverse voltage		190	200	V
I _{RRM}	Repetitive peak reverse current	V=VRRM	190	75	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Th=72°C, double side cooled		11310	A
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, Tc=85°C, double side cooled		13720	A
I _{FSM}	Surge forward current	Sine wave, 10 ms without reverse voltage	190	60	kA
I ² t	I ² t			18000 x 1E3	A ² s
V _{FM}	Forward voltage	Forward current = 6000 A	190	0,94	V
V _{F(TO)}	Threshold voltage		190	0,73	V
r _F	Forward slope resistance		190	0,035	mohm
SWITCHING					
t _{rr}	Reverse recovery time				μs
Q _{rr}	Reverse recovery charge		190		μC
I _{rr}	Peak reverse recovery current				A
MOUNTING					
R _{th(j-h)}	Thermal impedance, DC	Junction to heatsink, double side cooled		7	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		3	°C/kW
T _j	Operating junction temperature			-30 / 190	°C
F	Mounting force			25.0 / 50.0	kN
	Mass			50	g

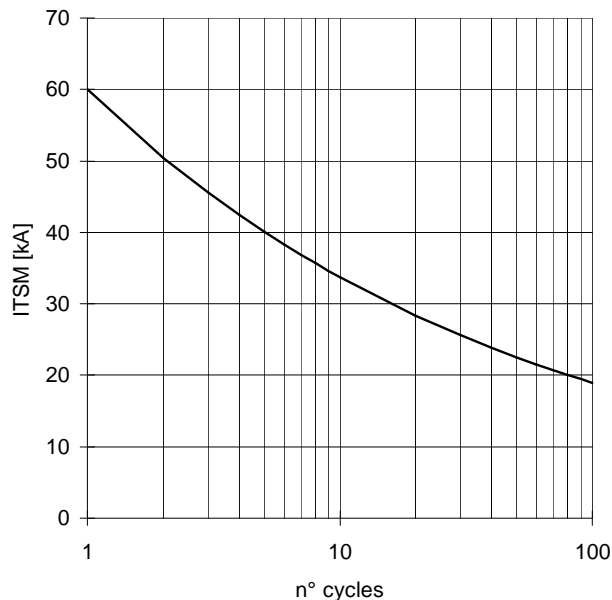
ORDERING INFORMATION : AUS601 S 02standard specification VRRM/100

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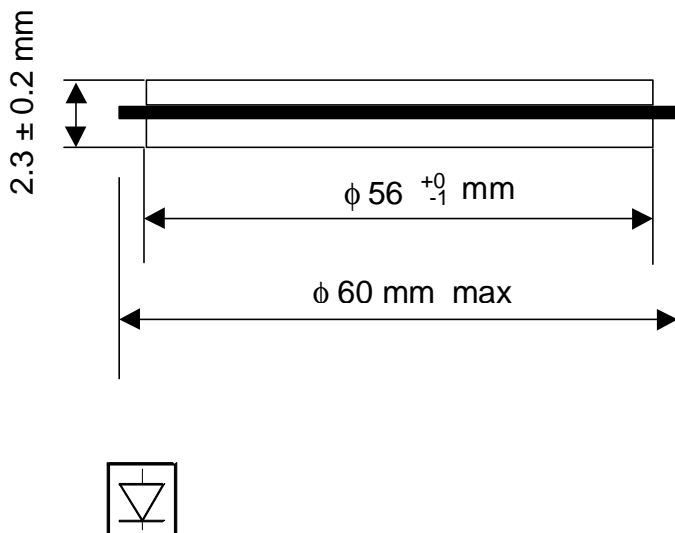
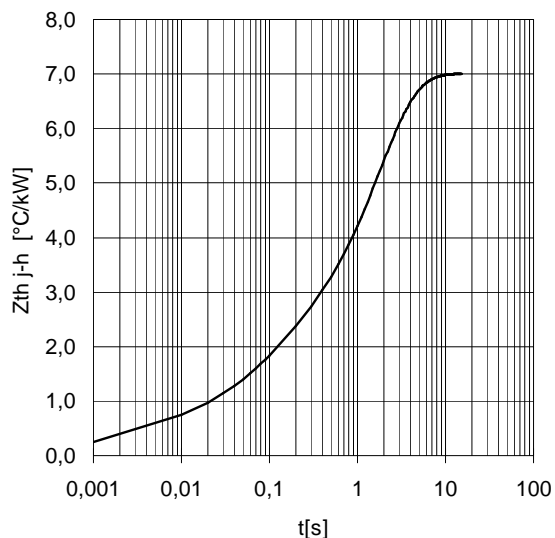
FORWARD CHARACTERISTIC
T_j = 190 °C



SURGE CHARACTERISTIC
T_j = 190 °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 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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