

查询ARF794HT供应商

捷多邦, 专业SOP8打样工厂, 24小时加急出货

POSEICO

POSEICO SPA

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FAST RECOVERY DIODE

ARF794HT

FOR IGBT, IEGT, GCT APPLICATIONS

SNUBBERLESS OPERATION

LOW LOSSES SOFT RECOVERY

Repetitive voltage up to

6000 V

Mean forward current

1060 A

Surge current

20 kA

TARGET SPECIFICATION

mar 03 - ISSUE : 2

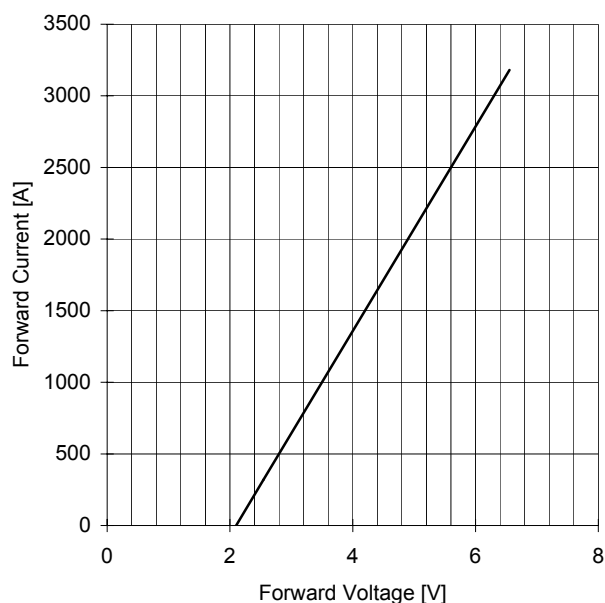
Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		125	6000	V
V _{RSM}	Non-repetitive peak reverse voltage		125	6100	V
I _{RRM}	Repetitive peak reverse current	V=V _{RRM}	125		mA
V _{DC LINK}	Permanent DC voltage		125	3200	V
CONDUCTING					
I _{F (AV)}	Mean forward current	180° sin ,50 Hz, Th=55°C, double side cooled		1060	A
I _{F (AV)}	Mean forward current	180° square, 50 Hz, Th=55°C, double side cooled		1110	A
I _{FSM}	Surge forward current	Sine wave, 10 ms	125	20	kA
I ² t	I ² t	reapplied reverse voltage up to 50% VRSM		2000 x1E3	A ² s
V _{FM}	Forward voltage	Forward current = 1570 A	25	5.6	V
V _{F(TO)}	Threshold voltage		125	2.10	V
r _F	Forward slope resistance		125	1.40	mohm
SWITCHING					
Q _{rr}	Reverse recovery charge	I _F = 1000 A di/dt = 250 A/μs V _R = 100 V	125		μC
I _{rr}	Peak reverse recovery current		125		A
t _{rr}	Reverse recovery time	I _F = 1000 A			μs
Q _{rr}	Reverse recovery charge	di/dt = 500 A/μs		4000	μC
I _{rr}	Peak reverse recovery current	V _R = V	125	1600	A
s	Softness (s-factor), min				
E _{OFF}	Turn off energy dissipation				J
V _{FR}	Peak forward recovery	di/dt = 500 A/μs	125		V
MOUNTING					
R _{th(j-h)}	Thermal impedance	Junction to heatsink, double side cooled		11	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		2	°C/kW
T _j	Operating junction temperature			-30 / 125	°C
F	Mounting force			46.0 / 54.0	kN
Mass				1700	g

ORDERING INFORMATION : ARF794HT S 60

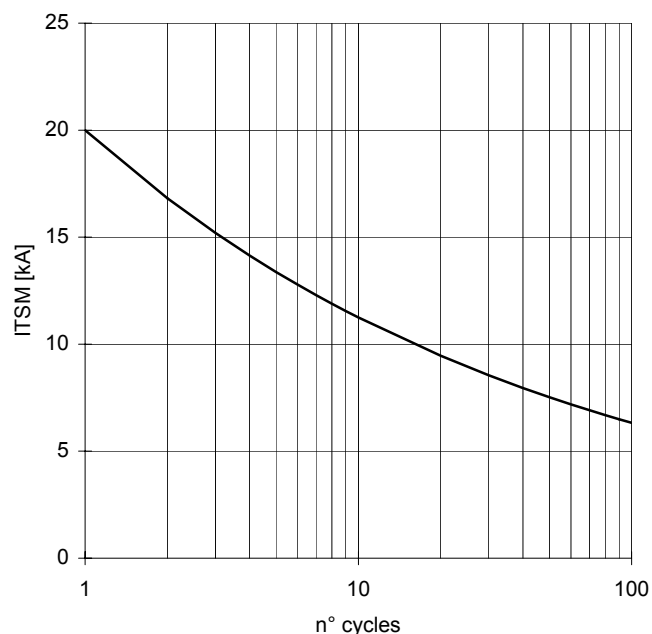
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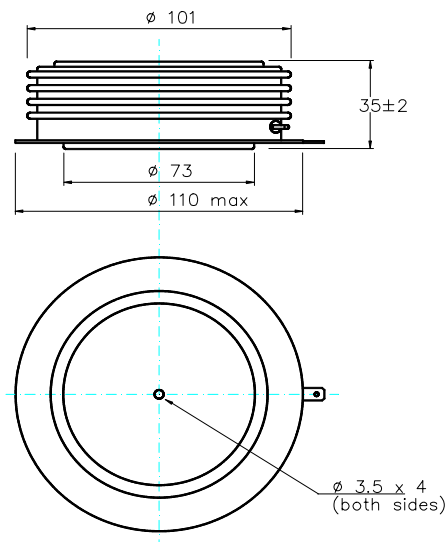
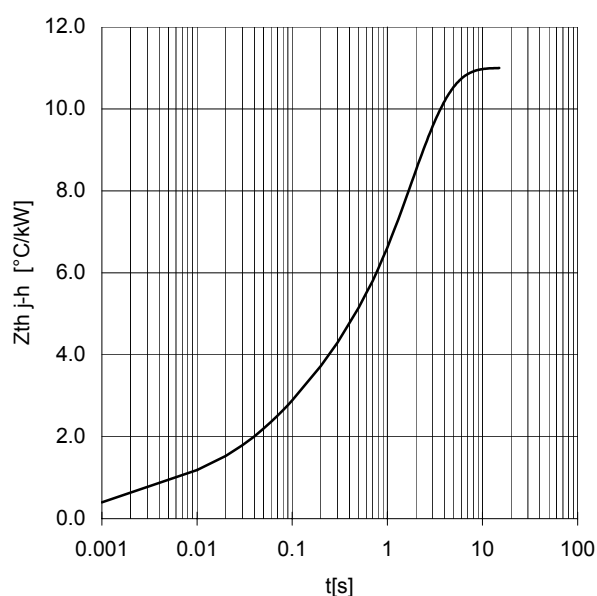
FORWARD CHARACTERISTIC
 $T_j = 125^\circ\text{C}$



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 POSEICO SpA 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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