

[查询ARF695供应商](#)

[捷成电子SIPCB打样工厂，24小时加急出货](#)

POSEICO

POSEICO SPA

POwer SEmiconductors Italian COrporation

Via N. Lorenzi 8, 16152 Genova - ITALY

Tel. +39 010 6556234 - Fax +39 010 6557519

Sales Office:

Tel. +39 010 6556775 - Fax +39 010 6442510

FAST RECOVERY DIODE

ARF695

FOR IGBT, IEGT, GCT APPLICATIONS

SNUBBERLESS OPERATION

LOW LOSSES SOFT RECOVERY

Repetitive voltage up to

6000 V

Mean forward current

880 A

Surge current

18 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=VRRM	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		880	A
I _{F (AV)}	Mean forward current	180° square, 50 Hz, Th=55°C, double side cooled		920	A
I _{FSM}	Surge forward current	Sine wave, 10 ms	125	18	kA
I ² t	I ² t	reapplied reverse voltage up to 50% VRSM		1620 x1E3	A²s
V _{FM}	Forward voltage	Forward current = 1570 A	25	5.2	V
V _{F(TO)}	Threshold voltage		125	2.10	V
r _F	Forward slope resistance		125	1.55	mohm
SWITCHING					
Q _{rr}	Reverse recovery charge	I _F = 1000 A di/dt= 250 A/μs VR = 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 VR = V		3000	μC
I _{rr}	Peak reverse recovery current		125	1200	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		14	°C/kW
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		3	°C/kW
T _j	Operating junction temperature			-30 / 125	°C
F	Mounting force			46.0 / 54.0	kN
M _{ass}	Mass			1150	g

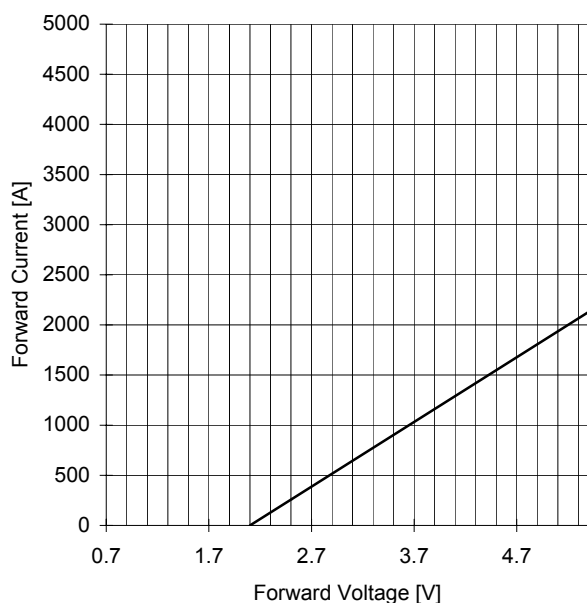
ORDERING INFORMATION : ARF695 S 60

ARF695 FAST RECOVERY DIODE

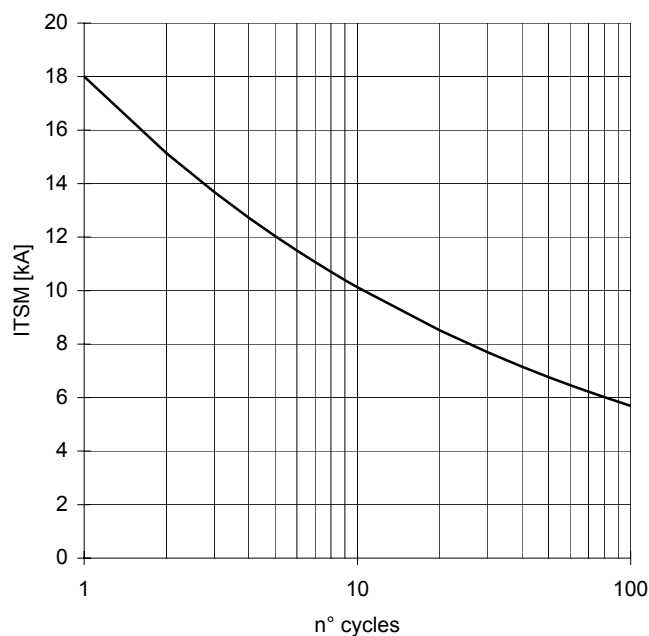


TARGET SPECIFICATION mar 03 - ISSUE : 2

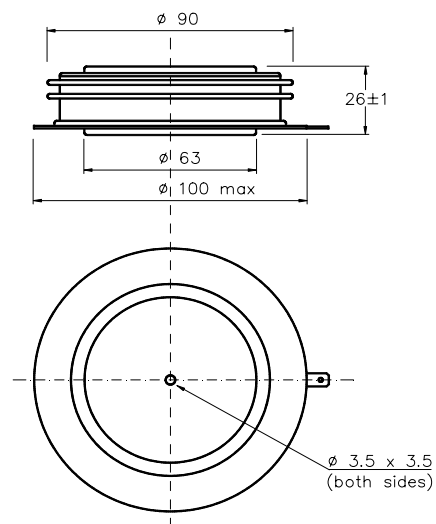
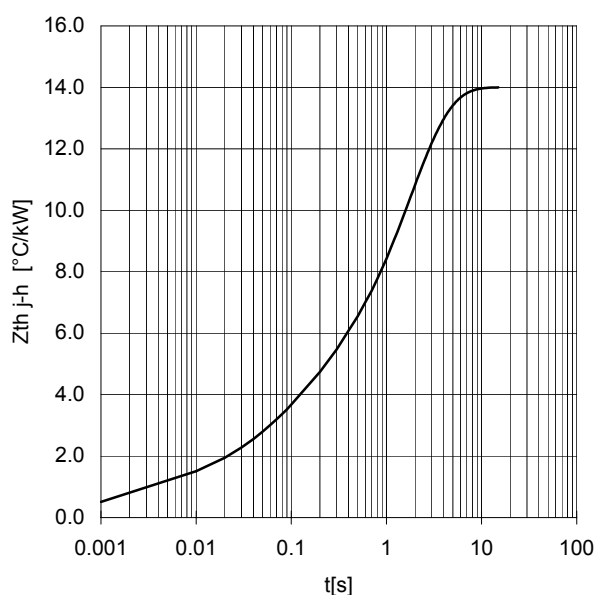
FORWARD CHARACTERISTIC
 $T_j = 125^\circ\text{C}$



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

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.

Distributed by

