

Feature

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with cerami insulators

Typical Application

- Inverters and choppers
- AC.motor control
- Snubber ang free-wheeling diodes

$I_{F(AV)}$	1000A
V_{RRM}	100-5000V
t_{rr}	4.0us

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_J (°C)	VALUE		UNIT
				Min	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, THS=97°C	150		1000	A
V_{RRM}	Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM} t_p=10ms$ $V_{DSM} \& V_{RSM}=V_{DRM} \& V_{RRM}+100V$	150	100	5000	V
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	150		50	mA
I_{TSM}	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	150		13	KA
I^2t	I^2t for fusing coordination				110	A^2S*10
V_{FO}	Threshold voltage		150		1.42	V
r_F	Forward slop resistance				0.36	mΩ
V_{FM}	Peak on-state voltage	$I_{TM}=628A, F=15KN$	25		2.6	V
I_{RM}	Reverse recovery current	$I_{TM}=628A, t_q=1000us$ $Di/dt=-20A/us.$ $V_r=50V$	150	114		A
t_{rr}	Reverse recovery time			4		us
Q_{rr}	Recovery charge			120	150	uC
$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At 180° sine double side cooled Clamping force 5.0kn			0.030	°C/W
F_M	Mounting force			10	20	KN
T_{stq}	Stored temperature			-40	160	°C
W_t	Weight					g
Outline						

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