

### 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

$I_{F(AV)}$	300A
$V_{RRM}$	100-5000V
$t_{rr}$	3.0us

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		300	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		30	mA
$I_{TSM}$	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	150		4.1	KA
$I^2t$	$I^2t$ for fusing coordination				90	$A^2S^*1$
$V_{FO}$	Threshold voltage		150		0.98	V
$r_F$	Forward slop resistance				0.31	mΩ
$V_{FM}$	Peak on-state voltage	$I_{TM}=628A, F=15KN$	25		2.4	V
$I_{RM}$	Reverse recovery current	$I_{TM}=628A, t_q=1000us$ $Di/dt=-20A/us.$ $V_f=50V$	150		75	A
$t_{rr}$	Reverse recovery time				4.0	us
$Q_{rr}$	Recovery charge				100	uC
$R_{th(j-h)}$	Thermal resistance Junction to heat sink	At180° sine double side cooled Clamping force 5.0kn			0.065	°C/W
$F_M$	Mounting force			5.3	10	KN
$T_{stq}$	Stored temperature			-40	160	°C
$W_t$	Weight					g
Outline						

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