

Features

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

$I_{F(AV)}$ 1876 A
 V_{RRM} 2100 ~ 3000V
 t_{rr} 10 μ s

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, $T_c=85^{\circ}C$	150			1876	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10ms$	150	2100		3000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			195	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			25	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				3125	A^2s*10^3
V_{FO}	Threshold voltage		150			1.55	V
r_F	Forward slope resistance					0.29	m Ω
V_{FM}	Peak forward voltage	$I_{TM}=3000A, F=35kN$	25			3.20	V
I_{rm}	Reverse recovery current	$I_{TM}=2000A, t_p=4000\mu s, di/dt=-60A/\mu s, V_R=100V$	150			260	A
t_{rr}	Reverse recovery time					10	μ s
Q_{rr}	Recovery charge					1300	1500
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force35kN				0.012	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.003	
F_m	Mounting force			30		40	kN
T_{vj}	Junction temperature			-40		150	$^{\circ}C$
T_{stg}	Stored temperature			-40		160	$^{\circ}C$
W_t	Weight					880	g
Outline	P44						

Outline:

