Features

- Optimized for high current rectifiers
- Very low threshold voltage and slop resistance
- Very low thermal resistance

Typical Applications

- High current application For Welders up to 2000Hz
- Electrode plating

$I_{F(AV)}$	**10500 A**
V_{RRM}	**200~400 V**
I_{FSM}	**70 kA**
I^2t	**24500 10^3A^2S**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T_C=85°C	175			10500	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RSM}= V_{RRM}+100V	175	200		400	V
I_{RRM}	Repetitive peak current	at V_{RRM}	175			50	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0V_{RRM}	175			70	kA
I^2t	I^2T for fusing coordination					24500	10^3A^2s
V_{FO}	Threshold voltage	I_{FM}=7000-21000A	175			0.81	V
r_F	Forward slop resistance					0.026	mΩ
V_{FM}	Max Peak on-state voltage	I_{FM}=6000A	25			1.00	V
Q_{rr}	Recovery charge	I_{FM}=1000A,tp=2000μs, di/dt=-20A/μs, V_R=50V	175			300	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine, double side cooled				0.005	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0025	
F_m	Mounting force			30	40	50	kN
T_{stg}	Stored temperature			-40		175	°C
W_t	Weight				110		g
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