

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)} 18000 A
V_{R(RM)} 200~400 V
I_{F(SM)} 135 kA
I²t 90000 10³A²S



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			18000	A
V _{R(RM)}	Repetitive peak reverse voltage	V _{R(RM)} tp=10ms V _{R(SM)} = V _{R(RM)} +100V	175	200		400	V
I _{R(RM)}	Repetitive peak current	at V _{R(RM)}	175			80	mA
I _{F(SM)}	Surge forward current	10ms half sine wave	175			135	kA
I ² t	I ² T for fusing coordination	V _R =0V _{R(RM)}				90000	A ² s*10 ³
V _{FO}	Threshold voltage	I _{FM} =12000-24000A	175			0.75	V
r _F	Forward slop resistance						0.017
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° sine double side cooled				0.003	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.0015	
F _m	Mounting force			70	80	90	kN
T _{stg}	Stored temperature			-40		175	°C
W _t	Weight				540		g
Outline	P65						

