

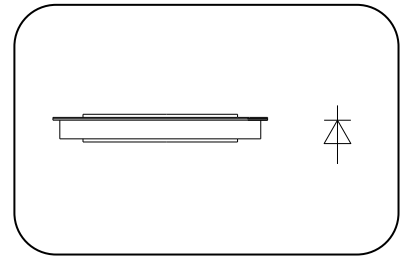
Features

- 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 1000Hz
- Electrode plating

$I_{F(AV)}$ 16000 A
 V_{RRM} 200~400 V
 I_{FSM} 120 kA
 I^2t 76000 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			16000	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	175	200		400	V
I_{RRM}	Repetitive peak current	at V_{RRM}	175			80	mA
I_{FSM}	Surge forward current	10ms half sine wave	175			120	kA
I^2t	I ² T for fusing coordination	V _R =0V _{RRM}				76000	10 ³ A ² s
V_{FO}	Threshold voltage	I_{FM} =12000-24000A	175			0.75	V
r_F	Forward slop resistance					0.017	mΩ
V_{FM}	Max Peak on-state voltage	I_{FM} =6000A, F=80kN	25			1.00	V
Q_{rr}	Recovery charge	I_{FM} =1000A, tp=2000μs, di/dt=-20A/μs, V _R =50V	175			650	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	Double side cooled Clamping force 80.0kN				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	P60						

