

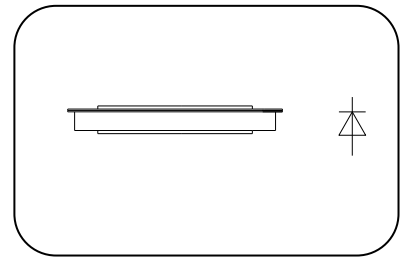
Features

- 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

$I_{F(AV)}$ **12000 A**
 V_{RRM} **200~400 V**
 I_{FSM} **90 kA**
 I^2t **40000 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			12000	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	175	200		400	V
I_{RRM}	Repetitive peak current	at V_{RRM}	175			50	mA
I_{FSM}	Surge forward current	10ms half sine wave	175			90	kA
I^2t	I ² t for fusing coordination	$V_R=0V_{RRM}$				40000	A ² s*10 ³
V_{FO}	Threshold voltage	$I_{FM}=8000-18000A$	175			0.74	V
r_F	Forward slope resistance					0.019	mΩ
V_{FM}	Max Peak on-state voltage	$I_{FM}=6000A, F=50kN$	25			0.98	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$	175			550	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	Double side cooled Clamping force 50.0kN				0.006	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.003	
F_m	Mounting force			35	50	65	kN
T_{stg}	Stored temperature			-40		175	°C
W_t	Weight				220		g
Outline	P59						

