

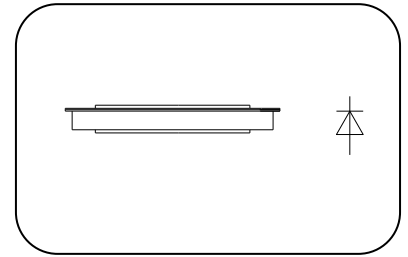
### Features

- 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 10000Hz
- Electrode plating

**$I_{F(AV)}$  10000 A**  
 **$V_{RRM}$  200~400 V**  
 **$I_{FSM}$  70 kA**  
 **$I^2t$  23000 10<sup>3</sup>A<sup>2</sup>S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T <sub>C</sub> =100°C	175			10000	A
$V_{RRM}$	Repetitive peak reverse voltage	t <sub>p</sub> =10ms	175	200		400	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	175			50	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	175			70	kA
$I^2t$	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0V <sub>RRM</sub>				23000	10 <sup>3</sup> A <sup>2</sup> s
$V_{FO}$	Threshold voltage	I <sub>FM</sub> =10000-30000A	175			0.81	V
$r_F$	Forward slope resistance					0.028	mΩ
$V_{FM}$	Max Peak on-state voltage	I <sub>FM</sub> =6000A, F=50kN	25			1.05	V
$I_{rr}$	Recovery current	I <sub>FM</sub> =1000A, t <sub>p</sub> =2000μs, di/dt=-20A/μs, V <sub>R</sub> =50V	175			40	A
$t_{rr}$	Recovery time					3.0	μs
$Q_{rr}$	Recovery charge					100	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						

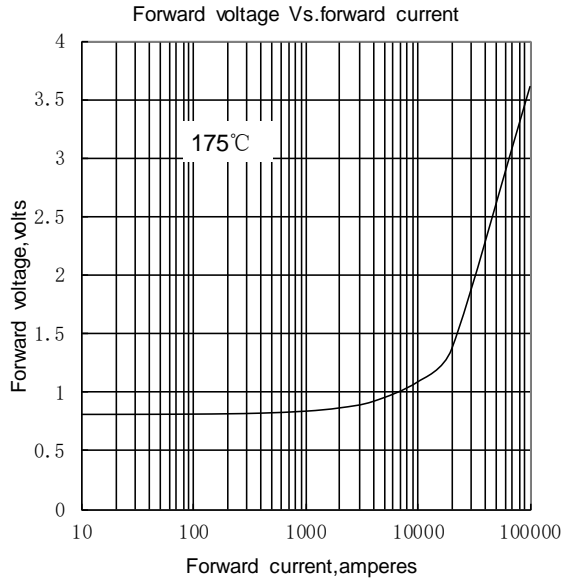


Fig.1

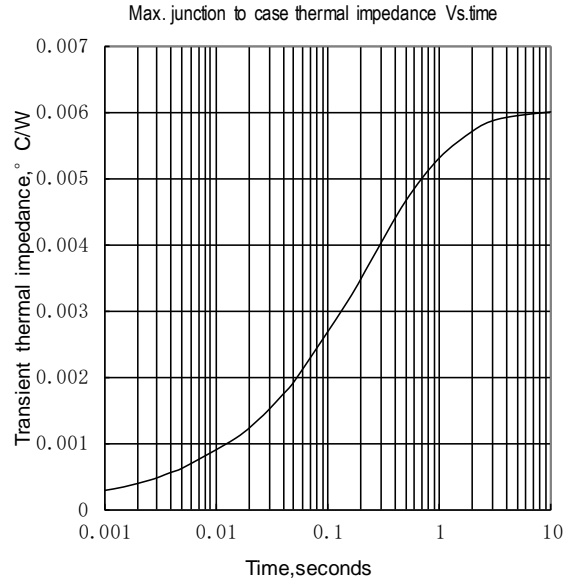


Fig.2

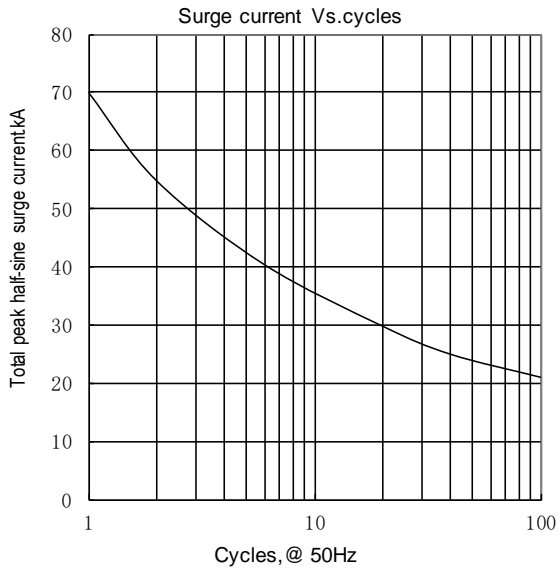


Fig.3

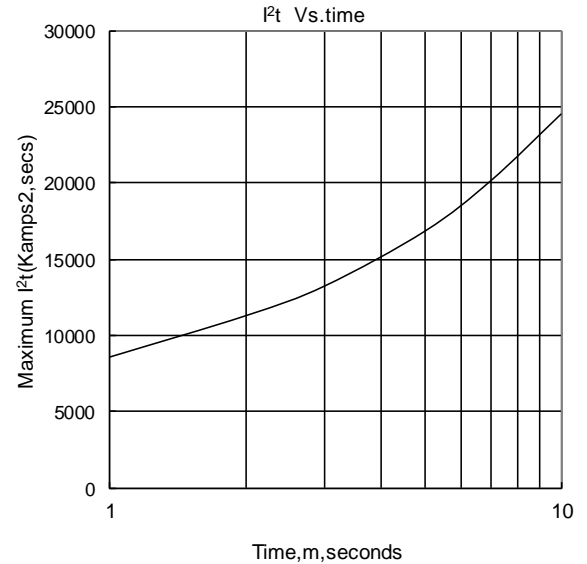


Fig.4

