

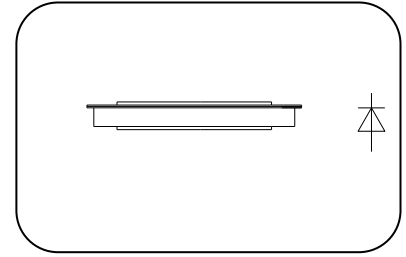
Features

- 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)} 5000 A
V_{R(RM)} 200~400 V
I_{F(SM)} 45 kA
I²t 10000 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 =100°C	175			5000	A
V _{R(RM)}	Repetitive peak reverse voltage	tp=10ms	175	200		400	V
I _{R(RM)}	Repetitive peak current	at V _{R(RM)}	175			50	mA
I _{F(SM)}	Surge forward current	10ms half sine wave	175			45	kA
I ² t	I ² t for fusing coordination	V _R =0V _{R(RM)}				10000	10 ³ A ² s
V _{FO}	Threshold voltage	I _F =5000-15000A	175			0.82	V
r _F	Forward slope resistance					0.032	mΩ
V _{FM}	Min Peak on-state voltage	I _{FM} =5000A, F=30kN	25			1.10	V
I _{rr}	Recovery current	I _{FM} =1000A, tp=2000μs, di/dt=-20A/μs, V _R =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 30.0kN				0.010	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink				0.005		
F _m	Mounting force			20		40	kN
T _{stg}	Stored temperature			-40		175	°C
W _t	Weight				140		g
Outline	P56						

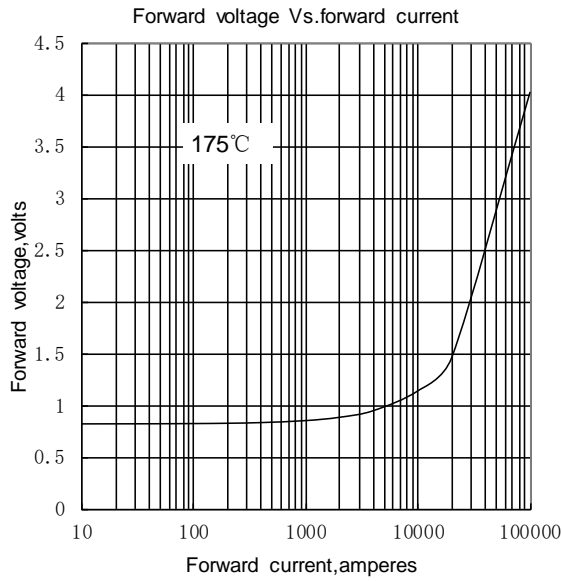


Fig.1

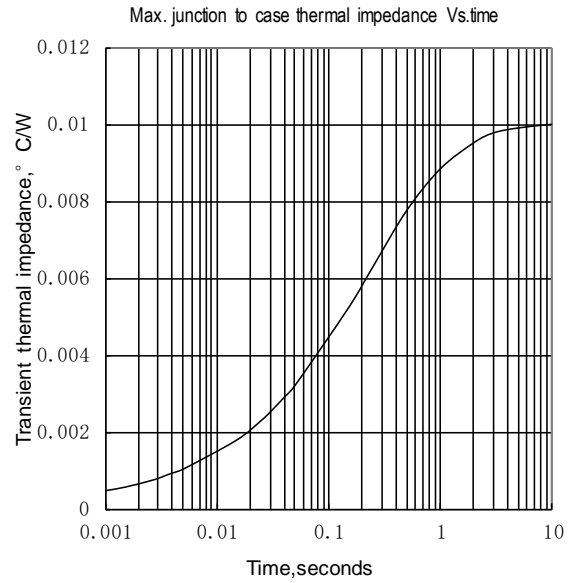


Fig.2

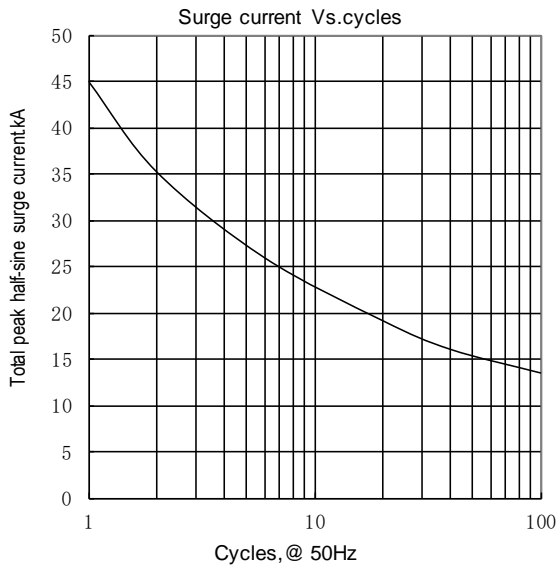


Fig.3

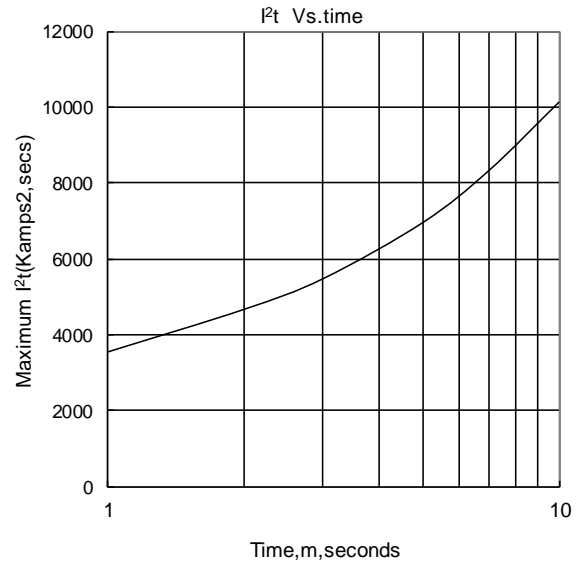


Fig.4

