

Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

$I_{F(AV)}$ **630A**
 V_{RRM} **1100~2000V**
 t_{rr} **3.0μs**



Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

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 =70°C	125			630	A	
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		125	1100		2000	V	
I _{RRM}	Repetitive peak current	at V _{RRM}		125			30	mA	
I _{FSM}	Surge forward current	10ms half sine wave		125			7.5	kA	
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						281	A ² s*10 ³
V _{FO}	Threshold voltage			125			1.30	V	
r _F	Forward slope resistance							0.42	mΩ□
V _{FM}	Peak forward voltage	I _{FM} =1200A, F=7.0kN		125			1.80	V	
I _{rm}	Reverse recovery current			125		42		A	
t _{rr}	Reverse recovery time	I _{FM} =1000A, tp=2000μs, -di/dt=60A/μs, V _R =50V					3.0		μs
Q _{rr}	Recovery charge						63		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled					0.045	°C/W	
R _{th(c-h)}	Thermal resistance case to heat sink	Clamping force 7.0kN					0.010		
F _m	Mounting force				5.3		10	kN	
T _{stg}	Stored temperature				-40		160	°C	
W _t	Weight					80		g	
Outline									

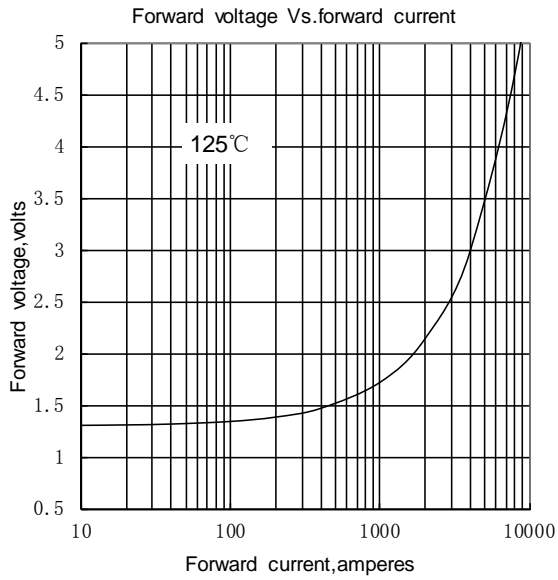


Fig.1

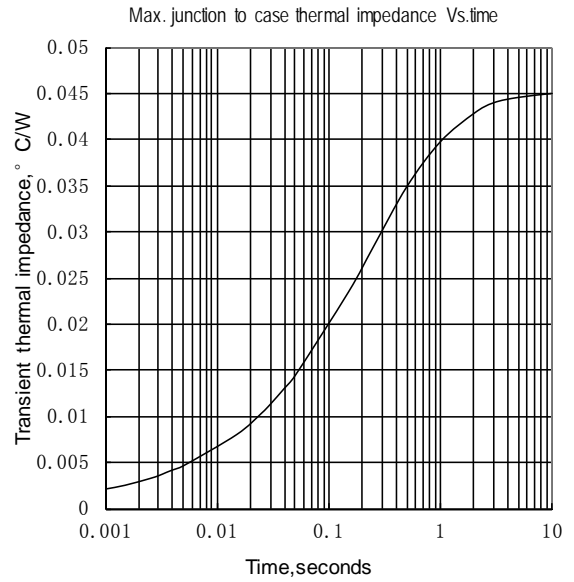


Fig.2

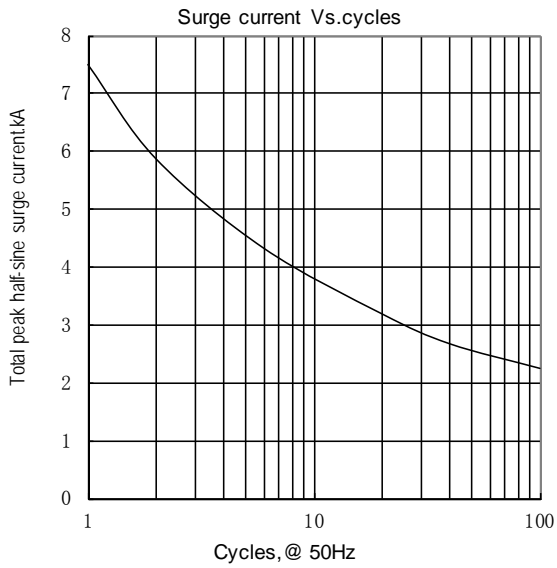


Fig.3

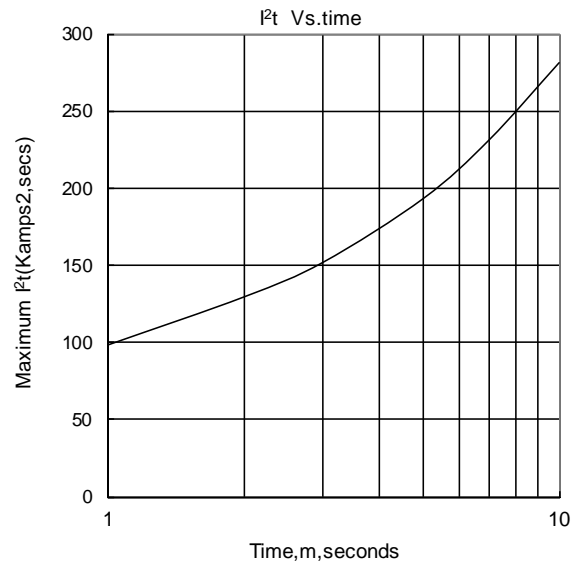


Fig.4

Outline:

