

Features

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

I_{F(AV)} **1110 A**
V_{RRM} **2100~3000V**
t_{rr} **7.0μs**

**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			1110	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	125	2100		3000	V
I _{RRM}	Repetitive peak current	at V _{RRM}	125			80	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	125			16	kA
I ² t	I ² t for fusing coordination					1280	A ² s*10 ³
V _{FO}	Threshold voltage		125			1.40	V
r _F	Forward slope resistance					0.39	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1500A, F=24kN	125			1.99	V
I _{rm}	Reverse recovery current	I _{FM} =1000A, tp=2000μs, -di/dt=60A/μs, V _R =50V	125			166	A
t _{rr}	Reverse recovery time					7	μs
Q _{rr}	Recovery charge					500	μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 24kN				0.020	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink					0.005	
F _m	Mounting force			19		26	kN
T _{stg}	Stored temperature			-40		160	°C
W _t	Weight					440	g
Outline							

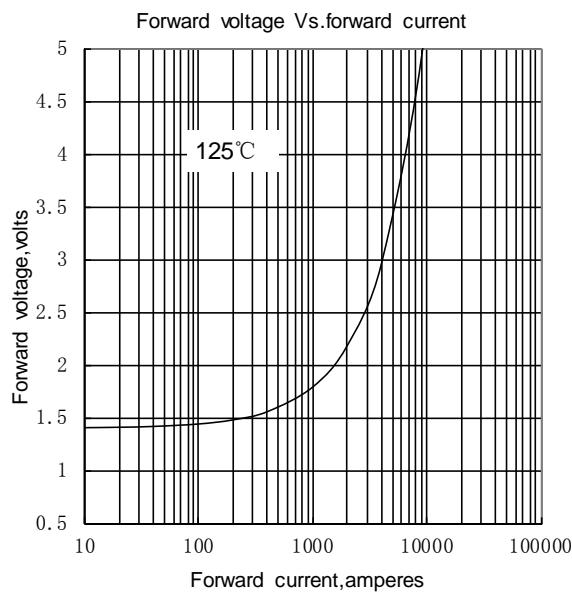


Fig.1

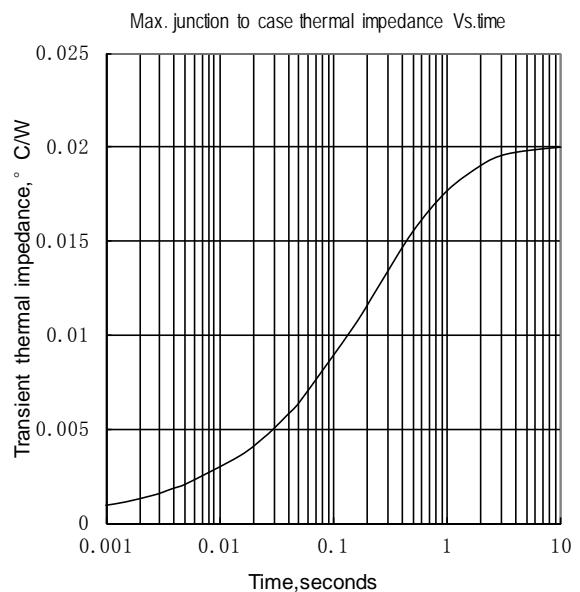


Fig.2

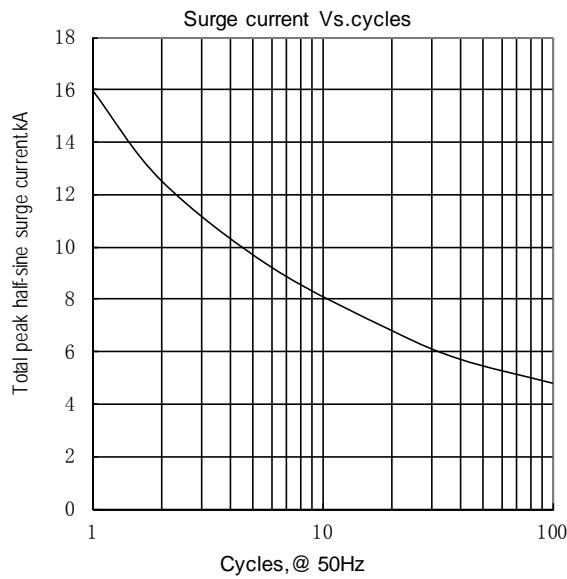


Fig.3

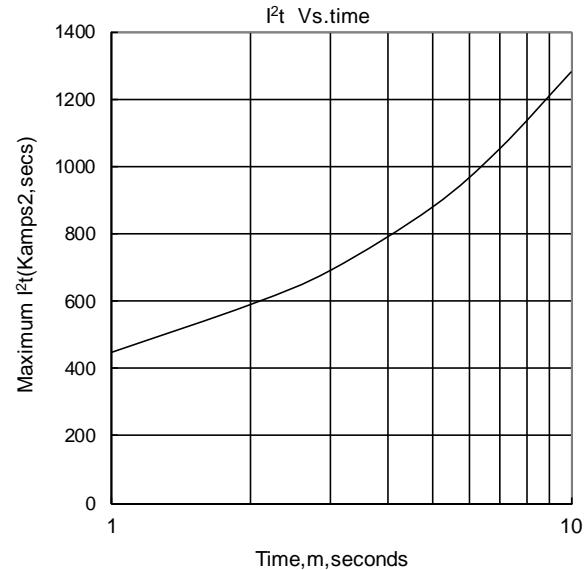


Fig.4

Outline: