

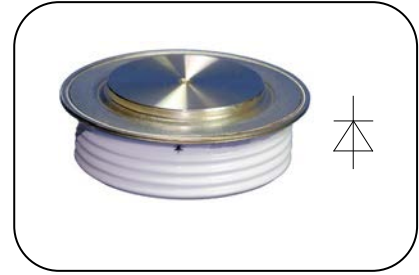
Features

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

$I_{F(AV)}$ **1330 A**
 V_{RRM} **1100~2000V**
 t_{rr} **6.0μs**

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			1330	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		125	1100		2000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		125			80	mA
I _{FSM}	Surge forward current	10ms half sine wave		125			19	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						1805
V _{FO}	Threshold voltage			125			1.37	V
r _F	Forward slope resistance						0.21	mΩ□
V _{FM}	Peak forward voltage	I _{FM} =3000A, F=24kN		125			2.00	V
I _{rm}	Reverse recovery current	I _{FM} =1000A, tp=2000μs, -di/dt=60A/μs, V _R =50V		125		76		A
t _{rr}	Reverse recovery time					6	μs	
Q _{rr}	Recovery charge					228	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								

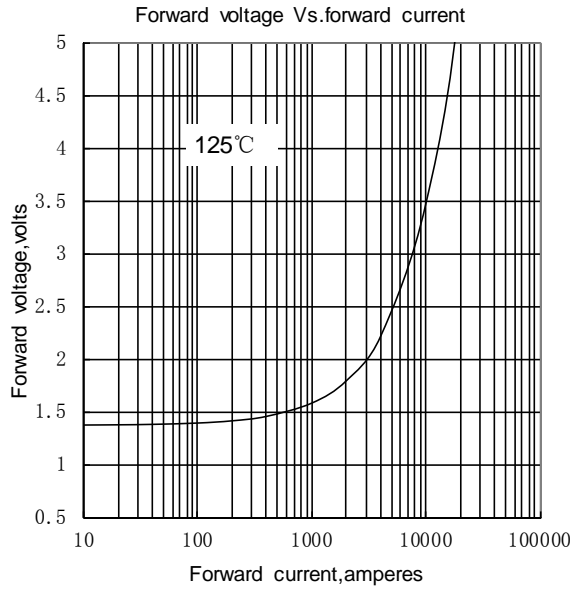


Fig.1

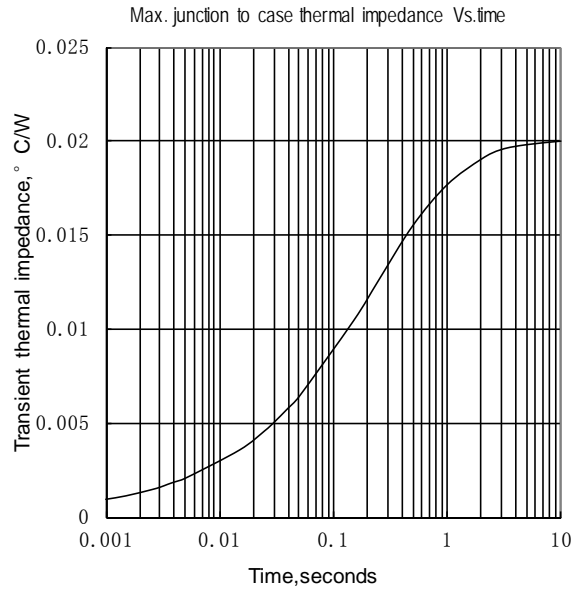


Fig.2

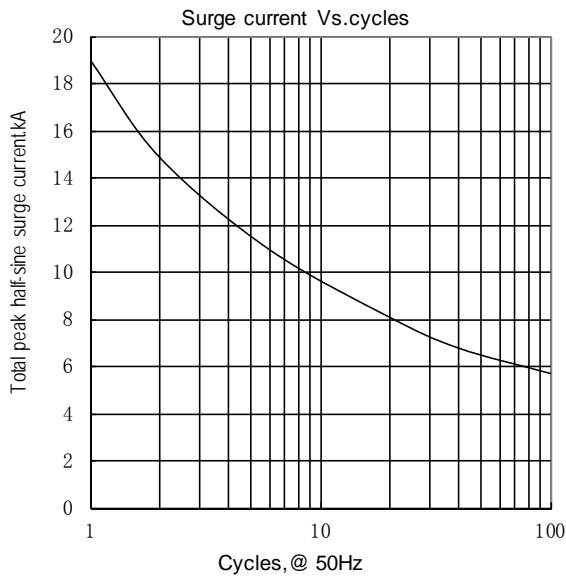


Fig.3

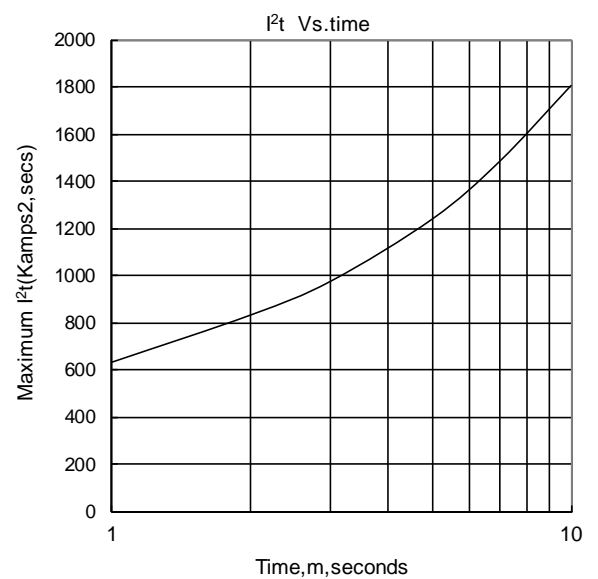


Fig.4

Outline:

