

Features

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

$I_{F(AV)}$ **630A**
 V_{RRM} **2100~3000V**
 t_{rr} **4.0 μ s**



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	2100		3000	V
I_{RRM}	Repetitive peak current	at V _{RRM}		125			40	mA
I_{FSM}	Surge forward current	10ms half sine wave		125			8.5	kA
I^2t	I ² t for fusing coordination	V _R =0.6V _{RRM}					361	A ² s*10 ³
V_{FO}	Threshold voltage			125			1.78	V
r_F	Forward slope resistance						0.45	mΩ□
V_{FM}	Peak forward voltage	I _{FM} =1000A, F=15kN		125			2.23	V
I_{rm}	Reverse recovery current	I _{FM} =1000A, tp=2000 μ s, -di/dt=60A/ μ s, V _R =50V		125		80		A
t_{rr}	Reverse recovery time					4		μ s
Q_{rr}	Recovery charge					120		μ C
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 15kN					0.035	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.008	
F_m	Mounting force				10		20	kN
T_{stg}	Stored temperature				-40		160	°C
W_t	Weight					240		g
Outline								

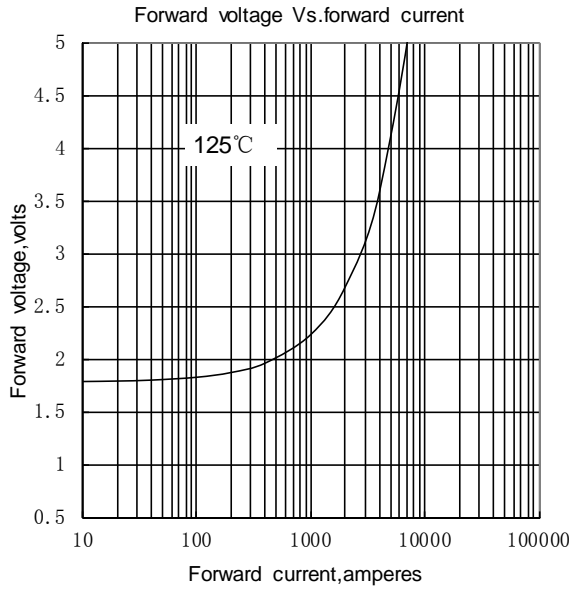


Fig.1

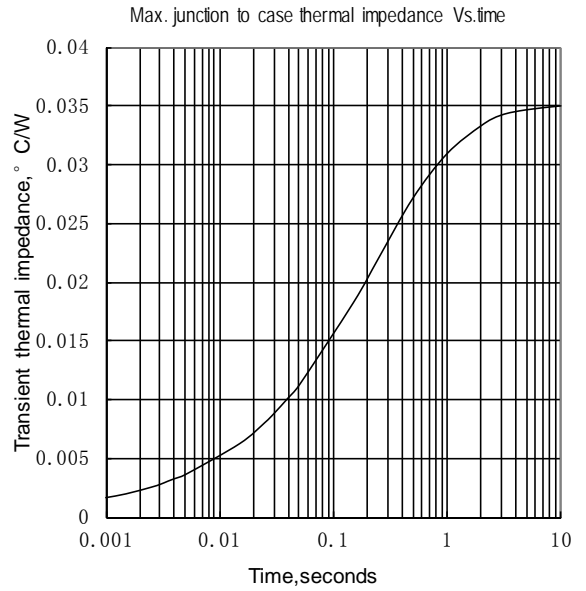


Fig.2

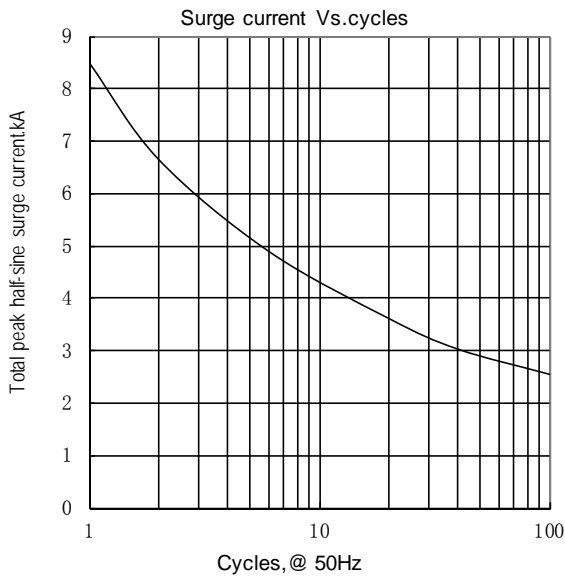


Fig.3

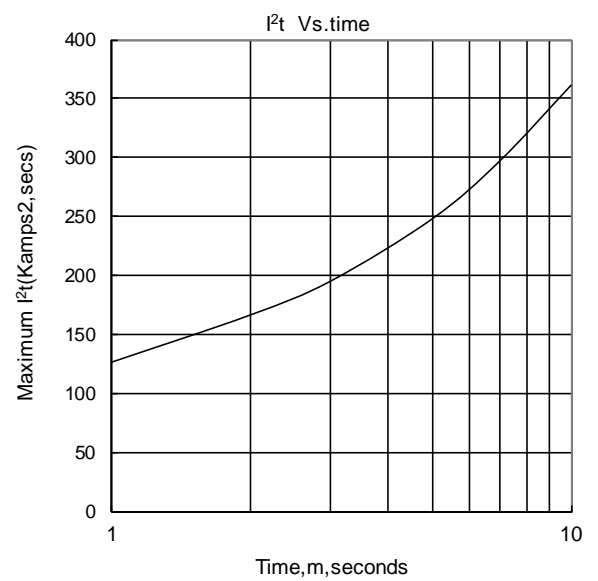


Fig.4

Outline:

