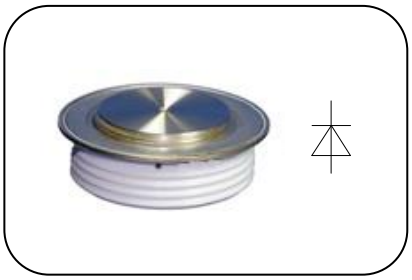
Features

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

Typical Applications

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

$I_{F(AV)}$ **1830A**
V_{RRM} **1100~2000V**
t_{rr} **7.0μs**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(℃)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T_C=70℃	125			1830	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	125	1100		2000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	125			100	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	125			25	kA
I^2t	I^2t for fusing coordination					3125	A^2s*10^3
V_{FO}	Threshold voltage		125			1.16	V
r_F	Forward slope resistance					0.16	mΩ
V_{FM}	Peak forward voltage	I_{FM}=5000A, F=28kN	125			1.96	V
I_{rm}	Reverse recovery current	I_{FM}=1000A,tp=2000μs, -di/dt=60A/μs, V_R=50V	125		128		A
t_{rr}	Reverse recovery time				7		μs
Q_{rr}	Recovery charge				450		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC, double side cooled Clamping force 28kN				0.016	℃/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.004	
F_m	Mounting force			21		30	kN
T_{stg}	Stored temperature			-40		160	℃
W_t	Weight				640		g
Outline	P43						

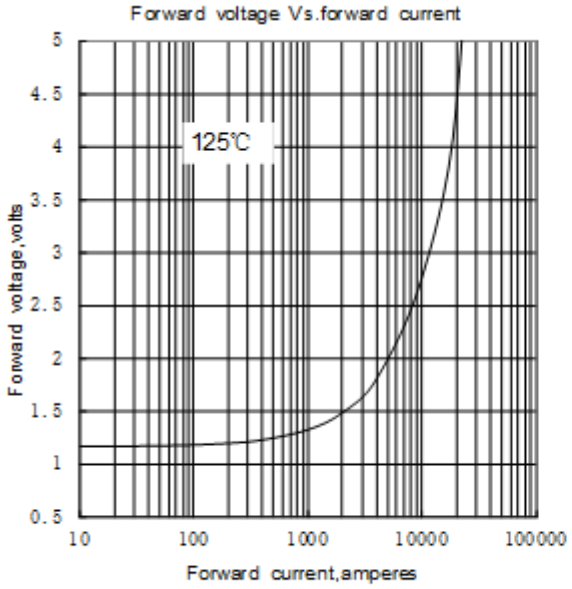


Fig.1

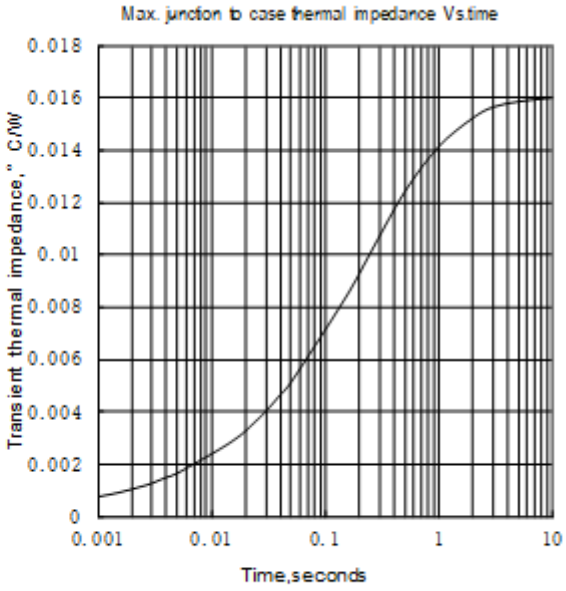


Fig.2

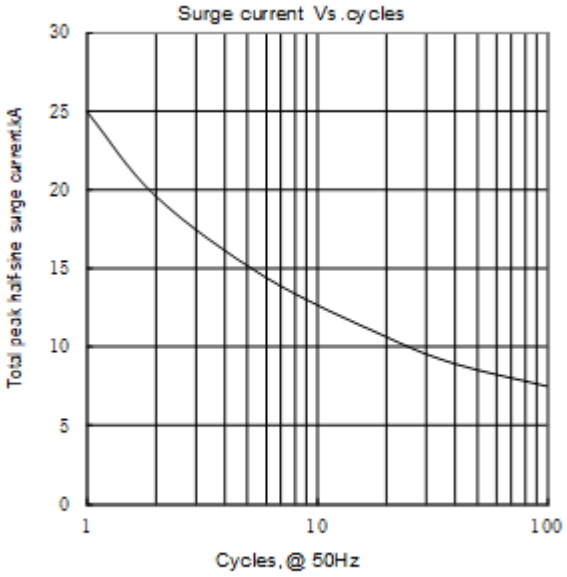


Fig.3