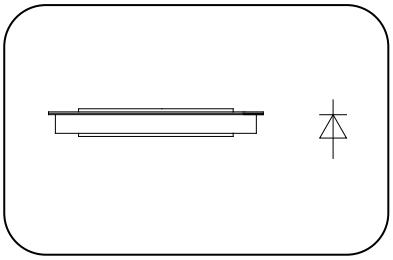
Features

- Low forward voltage drop
- High reverse voltage
- Hermetic metal cases with ceramic insulators

Typical Applications

- All purpose high power rectifier diodes
- High power resistance welding equipment
- Non-controllable and half-controllable rectifiers
- Controlled rectifiers

$I_{F(AV)}$	**4280A**
V_{RRM}	**200~400 V**
I_{FSM}	**38 kA**
I^2t	**7220 10^3A^2S**



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=85℃	175			4280	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		175	200		400	V
I_{RRM}	Repetitive peak current	at V_{RRM}		175			50	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		175			38	kA
I^2t	I^2t for fusing coordination						7220	A^2s*10^3
V_{FO}	Threshold voltage			175			0.69	V
r_F	Forward slope resistance						0.042	mΩ
V_{FM}	Peak on-state voltage	I_{FM}=9000A, F=24kN		175			1.30	V
Q_{rr}	Recovery charge	I_{FM}=2000A, tp=2000μs, di/dt=-20A/μs,V_R=50V		175		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine, double side cooled Clamping force 24.0kN					0.0135	℃/W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.004	
F_m	Mounting force				19		26	kN
T_{stg}	Stored temperature				-40		175	℃
W_t	Weight					160		
Outline								

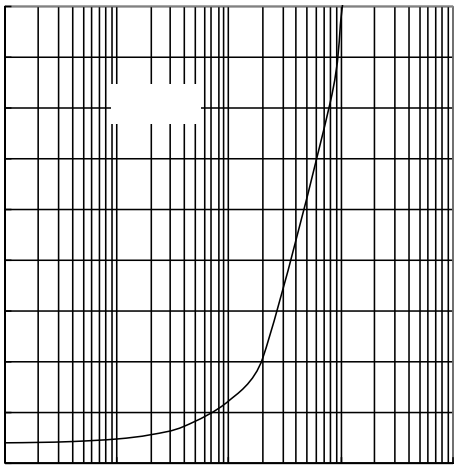


Fig.1

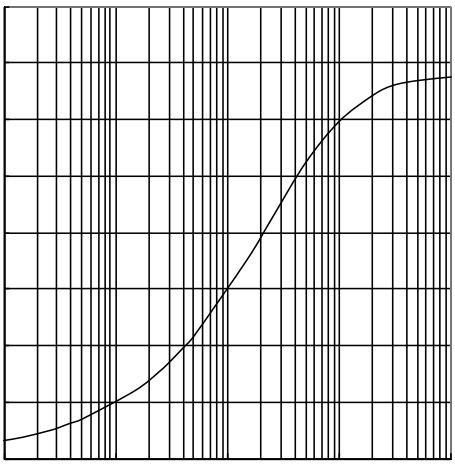


Fig.2

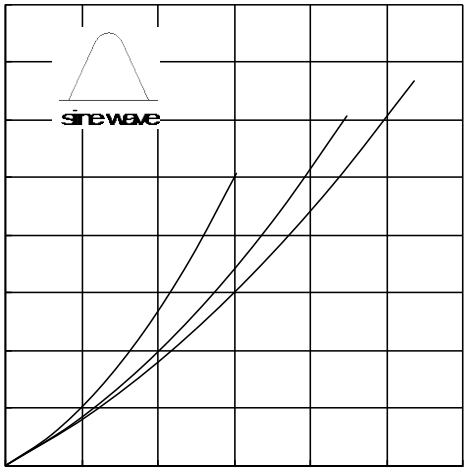


Fig.3

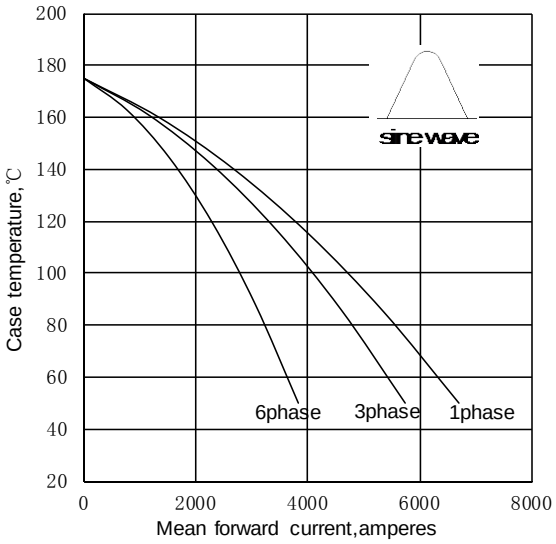


Fig.4

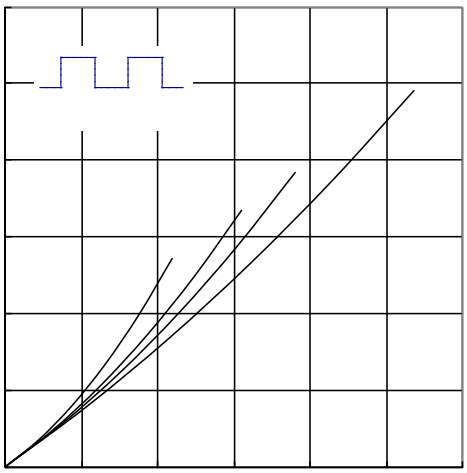


Fig.5

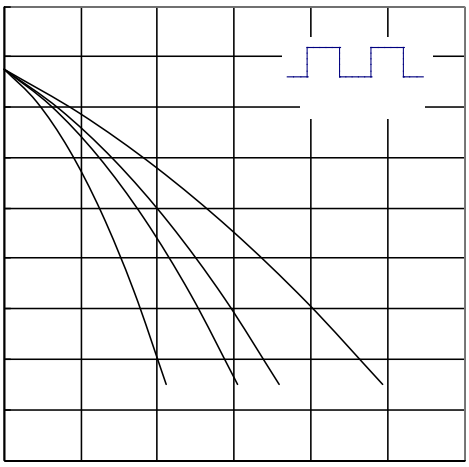


Fig.6

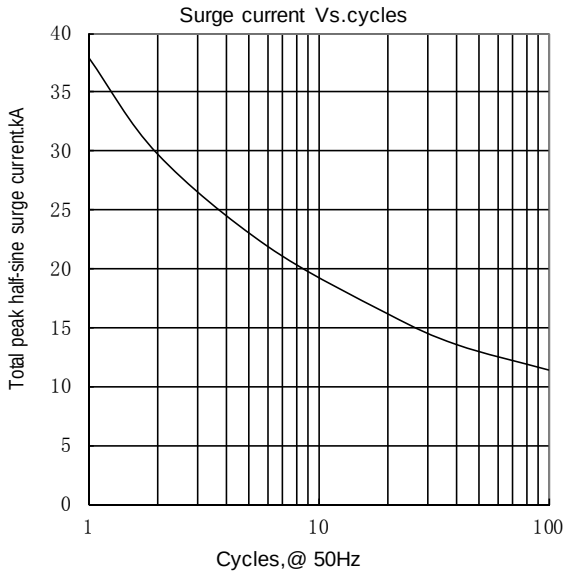


Fig.7

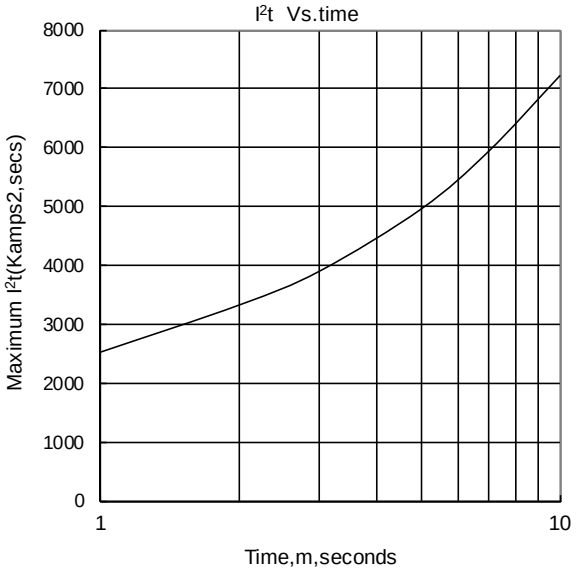


Fig.8

Outline: