

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)}	5220A
V_{RRM}	1100~2000 V
I_{FSM}	56.4 kA
I²t	15904 10³A²S



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 =85°C				5220	A
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V		175	1100		2000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		175			200	mA
I _{FSM}	Surge forward current	10ms half sine wave		175			56.4	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					15904	A ² s*10 ³
V _{FO}	Threshold voltage			175			0.84	V
r _F	Forward slope resistance						0.069	mΩ
V _{FM}	Peak forward voltage	I _{FM} =6800A, F=40kN		175			1.31	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		175		5500		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.010	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.003		
F _m	Mounting force				35		47	kN
T _{stg}	Stored temperature				-40		175	°C
W _t	Weight					1100		g
Outline								

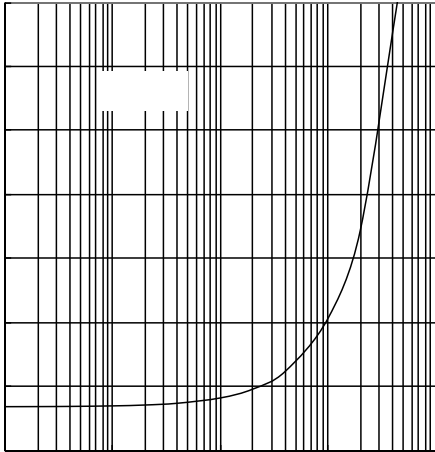


Fig.1

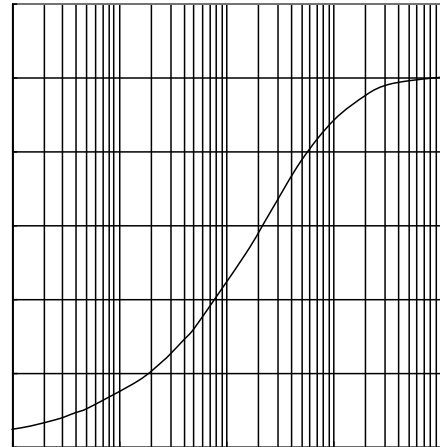


Fig.2

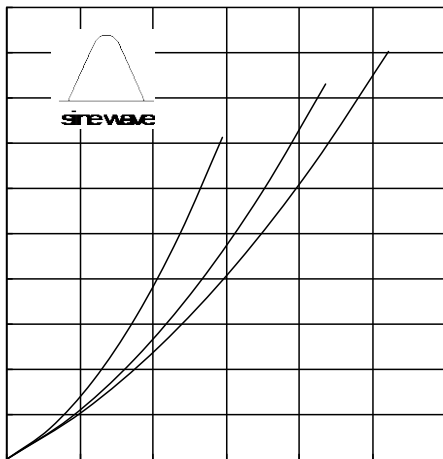


Fig.3

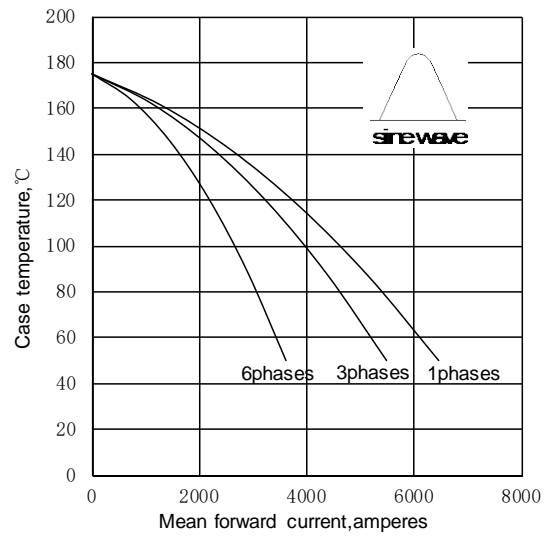


Fig.4

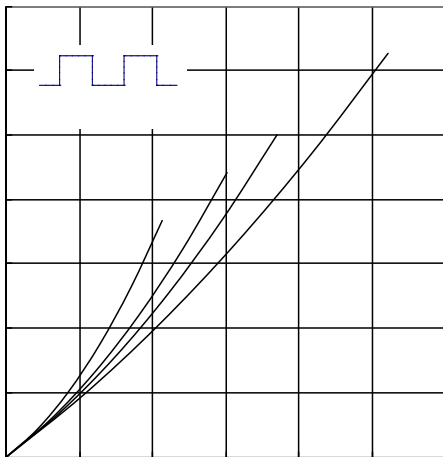


Fig.5

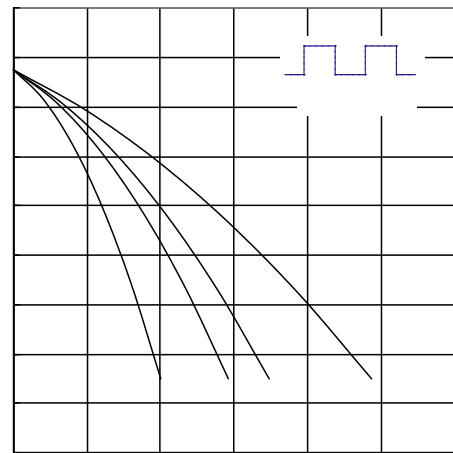


Fig.6

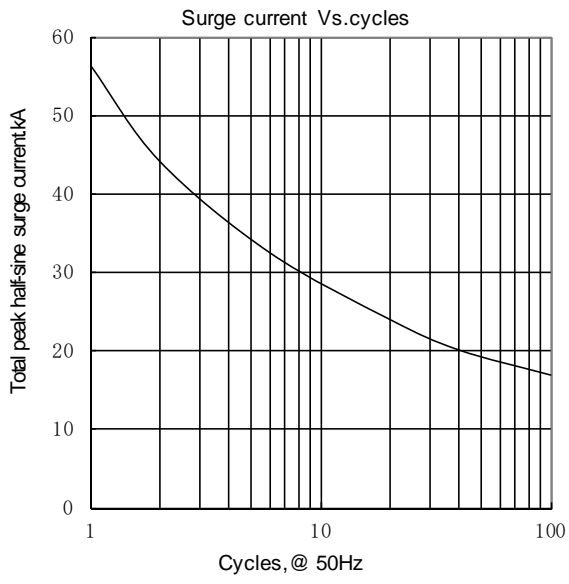


Fig.7

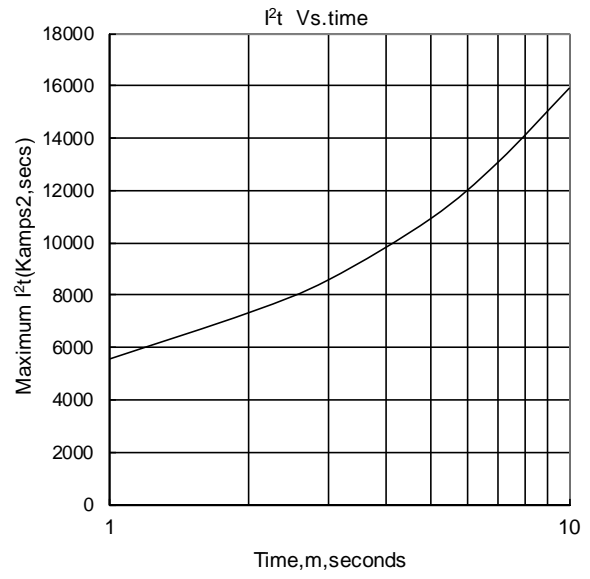


Fig.8

Outline:

