

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)}	3470 A
V_{RRM}	2100~3000 V
I_{FSM}	35 kA
I²t	6125 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	160			3470	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		160	2100		3000	V
I _{RRM}	Repetitive peak current	At V _{RRM}		160			160	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}		160			35	kA
I ² t	I ² t for fusing coordination						6125	A ² s*10 ³
V _{FO}	Threshold voltage			160			0.95	V
r _F	Forward slope resistance						0.10	mΩ
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=40kN		160			1.45	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		160		5500		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 40kN					0.012	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink						0.003	
F _m	Mounting force				30		40	kN
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					880		g
Outline								

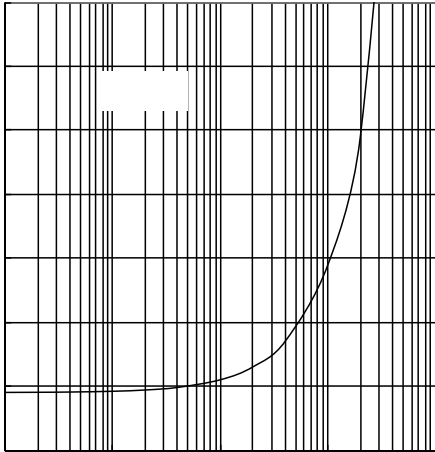


Fig.1

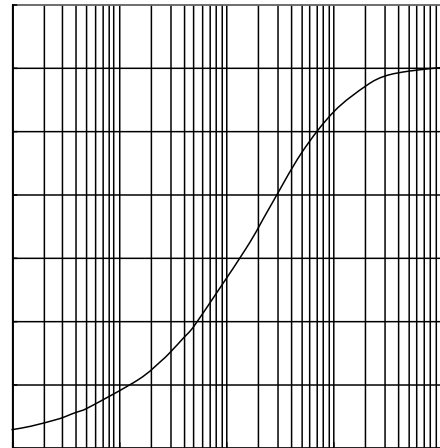


Fig.2

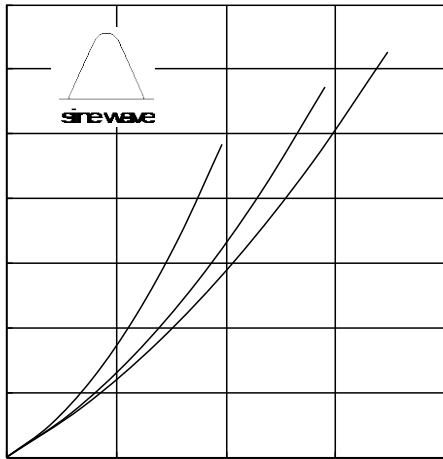


Fig.3

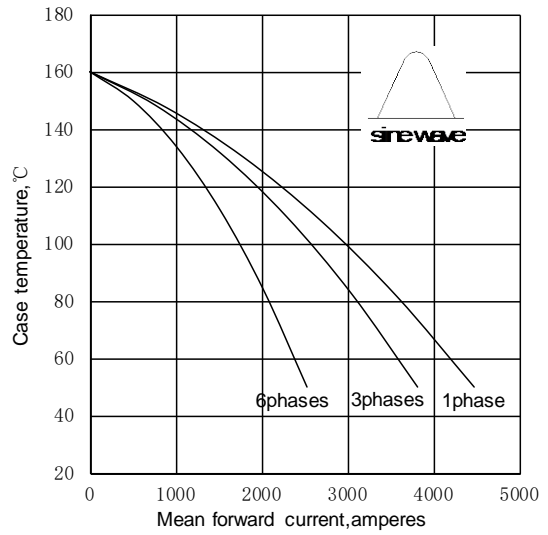


Fig.4

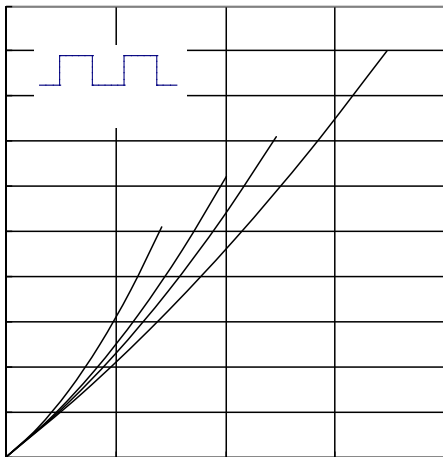


Fig.5

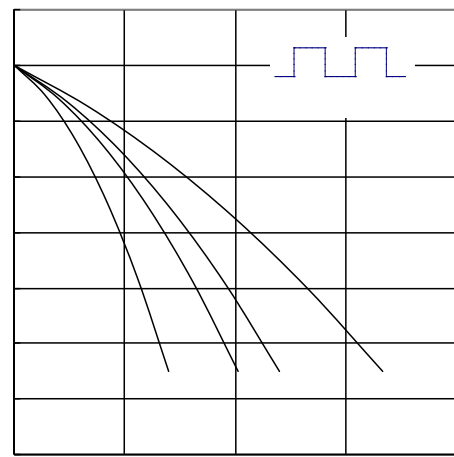


Fig.6

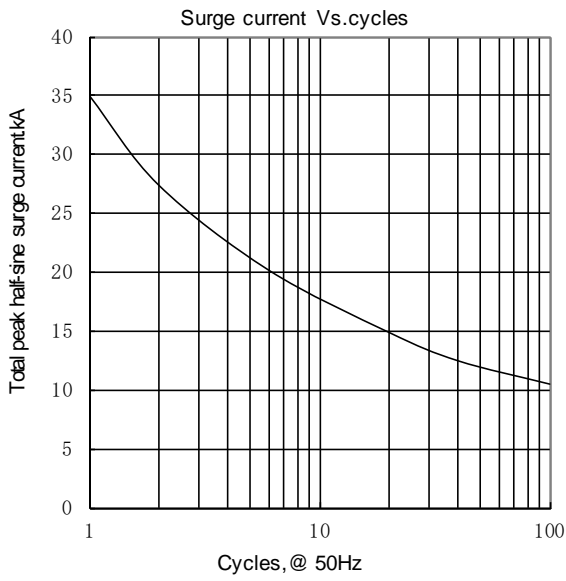


Fig.7

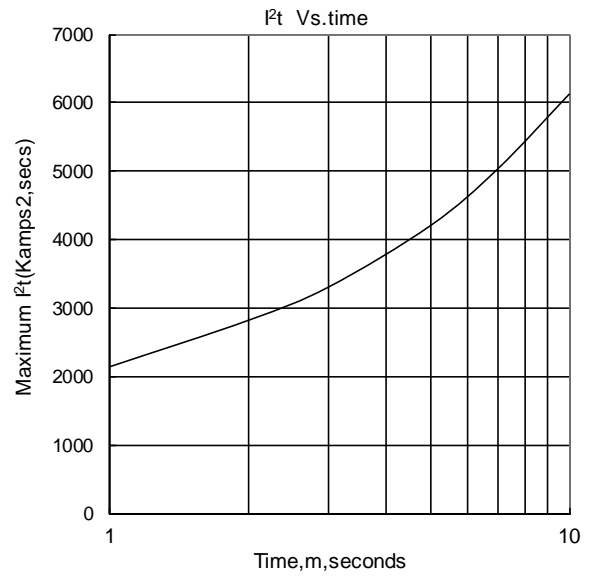


Fig.8

Outline:

