

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)} **7090A**
V_{RRM} **1100~2000 V**
I_{FSM} **83 kA**
I²t **34445 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	175		7090	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	175	1100		2000	V
I _{RRM}	Repetitive peak current	at V _{RRM}	175			200	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	175			83	kA
I ² t	I ² t for fusing coordination					34445	A ² s*10 ³
V _{FO}	Threshold voltage		175			0.68	V
r _F	Forward slope resistance					0.065	mΩ
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=70kN	175			1.01	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V	175		6000		μC
R _{th(j-c)}	Thermal resistance Junction to case	DC double side cooled Clamping force 70kN				0.007	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.002	
F _m	Mounting force			63		84	kN
T _{stg}	Stored temperature			-40		175	°C
W _t	Weight				1390		g
Outline		P47					

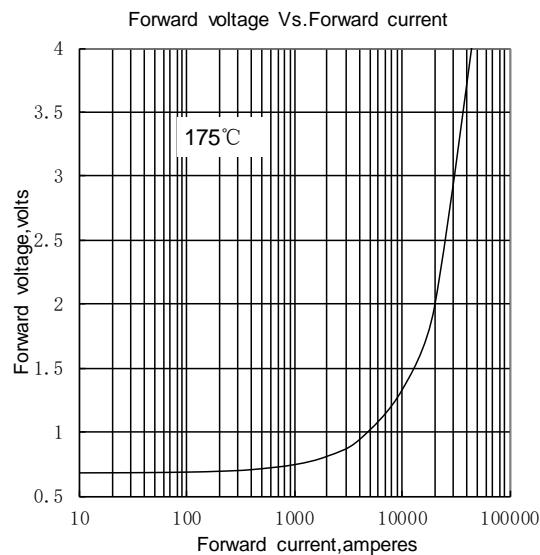


Fig.1

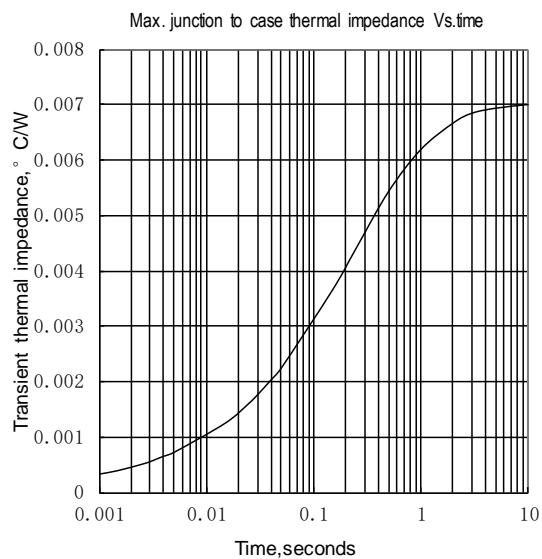


Fig.2

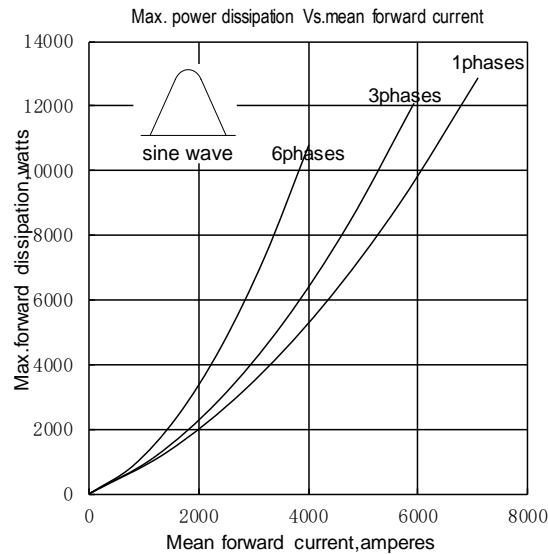


Fig.3

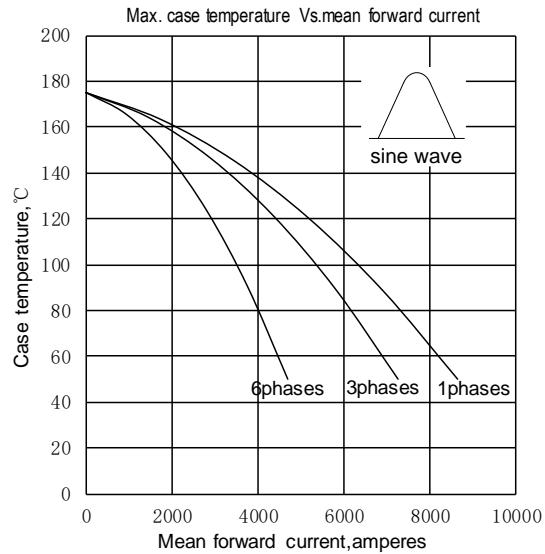


Fig.4

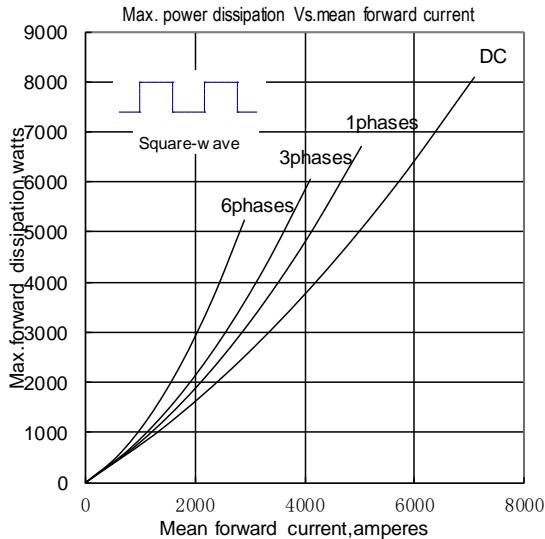


Fig.5

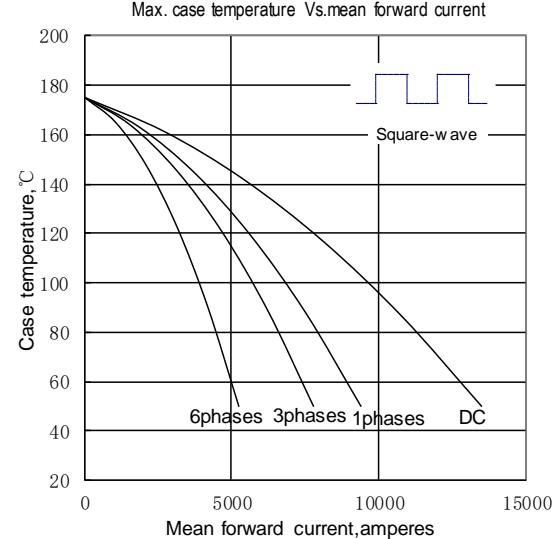


Fig.6

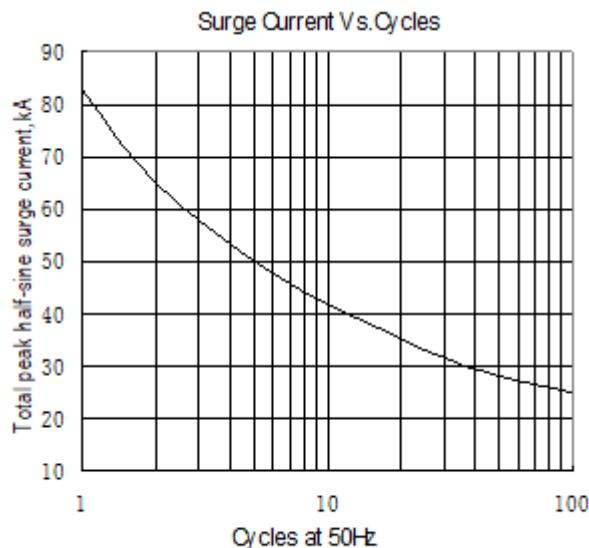


Fig. 7

