

Features

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

I_{F(AV)} 1980A
V_{RRM} 2100V ~3000V

Typical Applications

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

I_{FSM} 27 kA
I²t 3645 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			1980	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		160	2100		3000	V
I _{RRM}	Repetitive peak current	At V _{RRM}		160			80	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}		160			27	kA
I ² t	I ² t for fusing coordination						3645	A ² s*10 ³
V _{FO}	Threshold voltage			160			0.82	V
r _F	Forward slope resistance						0.22	mΩ
V _{FM}	Peak forward voltage	I _{FM} =3000A, F=24kN		25			2.00	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=4000μs, di/dt=-20A/μs, V _R =100V		160		3500		μC
R _{th(j-c)}	Thermal resistance Junction to case	D.C. double side cooled Clamping force 24kN					0.020	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink						0.005	
F _m	Mounting force				19		26	kN
T _{vj}	Junction temperature				-40		160	°C
T _{slg}	Stored temperature				-40		160	°C
W _t	Weight					440		g
Outline	P42							

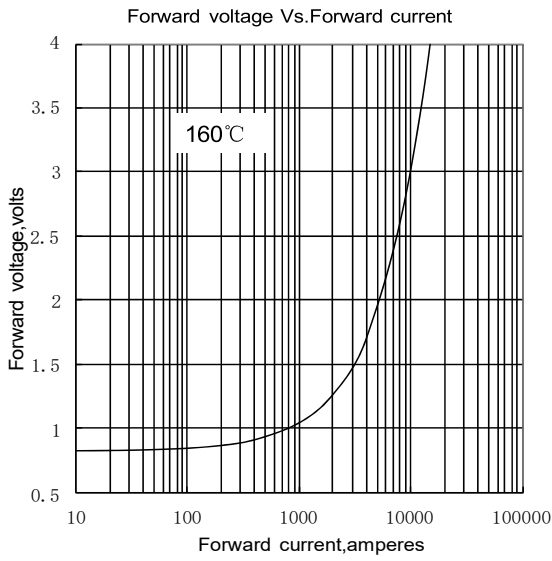


Fig.1

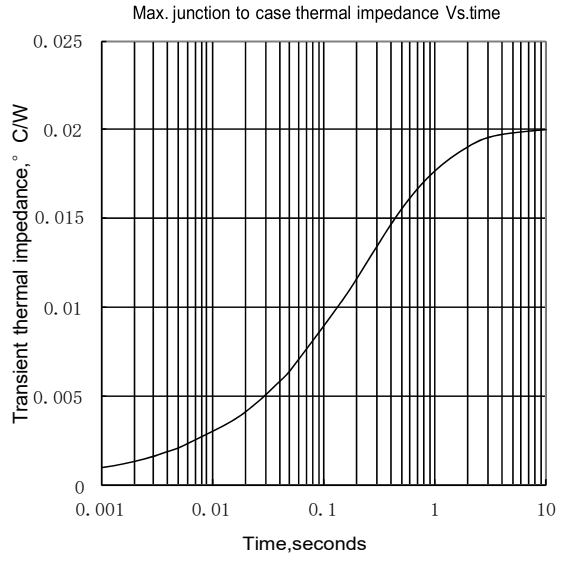


Fig.2

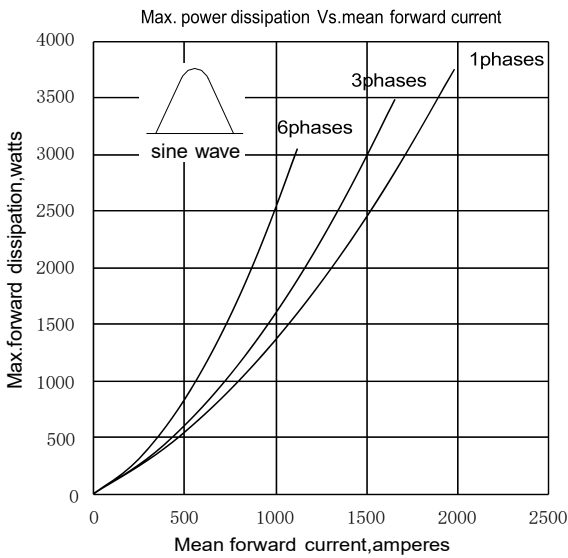


Fig.3

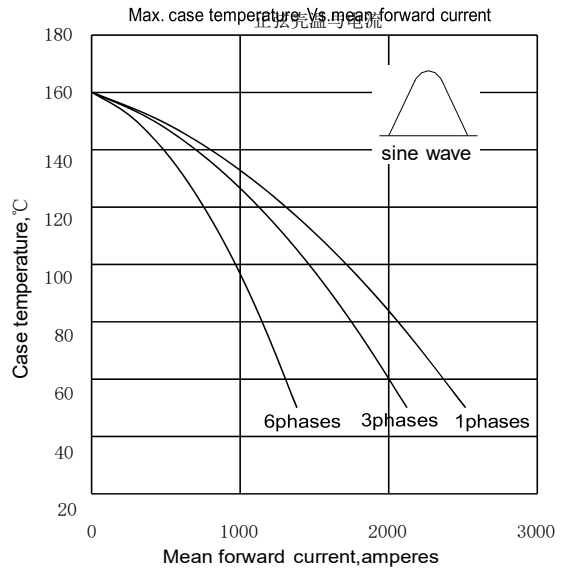


Fig.4

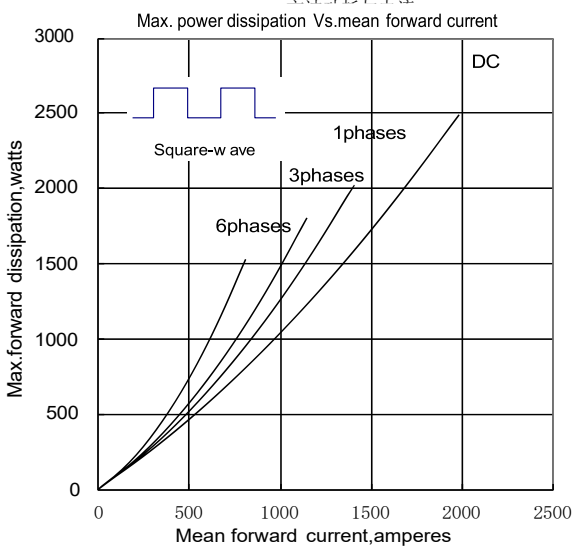


Fig.5

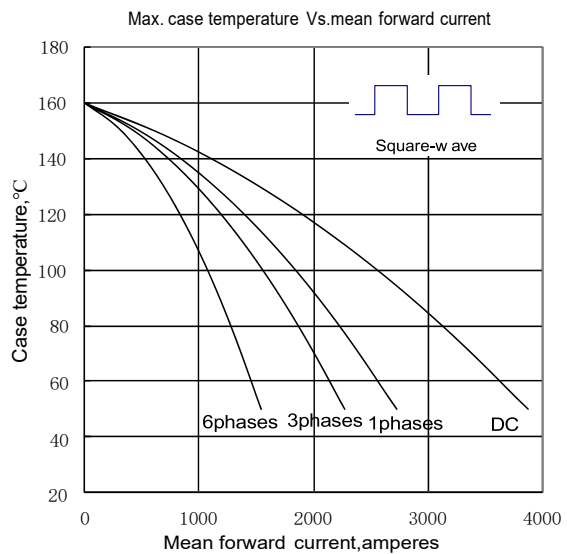


Fig.6

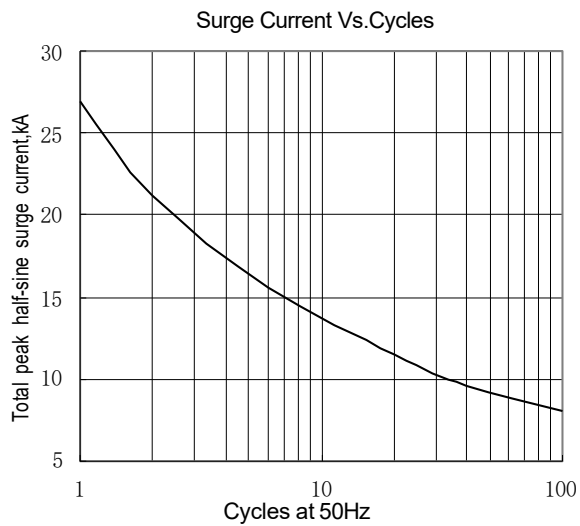


Fig.7

Outline:

