

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)}	1980 A
V_{RRM}	2200V 2400 V
	2800 V 3000V
I_{FSM}	27 kA



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
I _{RRM}	Repetitive peak current	at V _{RRM} , t _p =10ms		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	10 ³ A ² s
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} =2000A, t _p =4000μs, dI/dt=-20A/μs, V _R =50V	160		3500		μC
R _{th(j-c)}	Thermal resistance Junction to case	DC, double side cooled Clamping force 24kN				0.020	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink					0.005	
F _m	Mounting force			19		26	kN
T _{vj}	Junction temperature			-40		160	°C
T _{stg}	Stored temperature			-40		160	°C
W _t	Weight				290		g
Outline	P35						

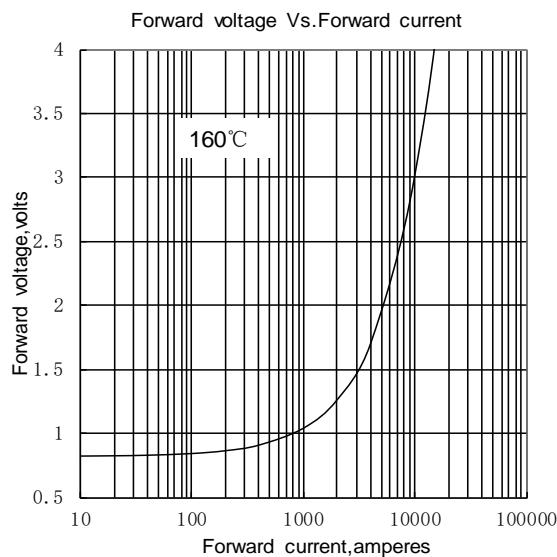


Fig.1

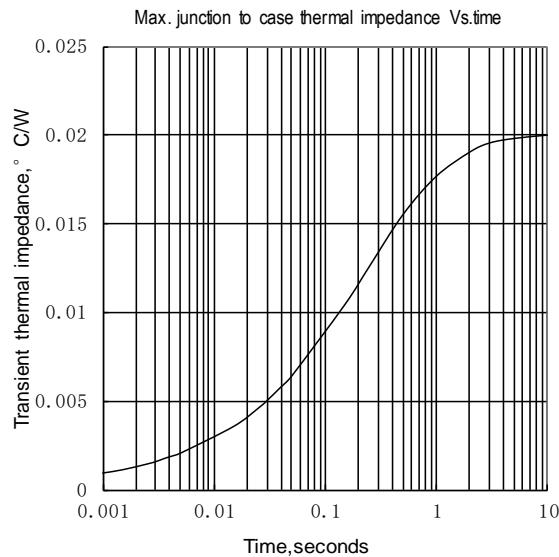


Fig.2

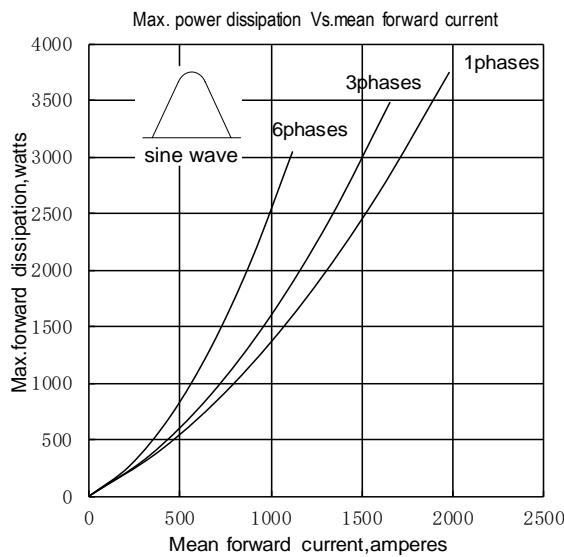


Fig.3

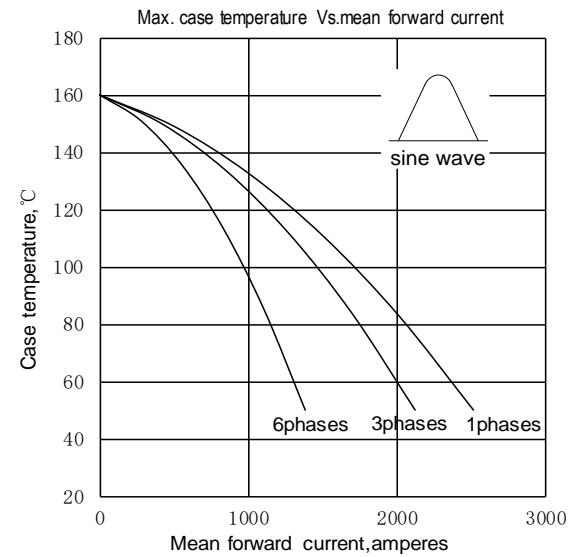


Fig.4

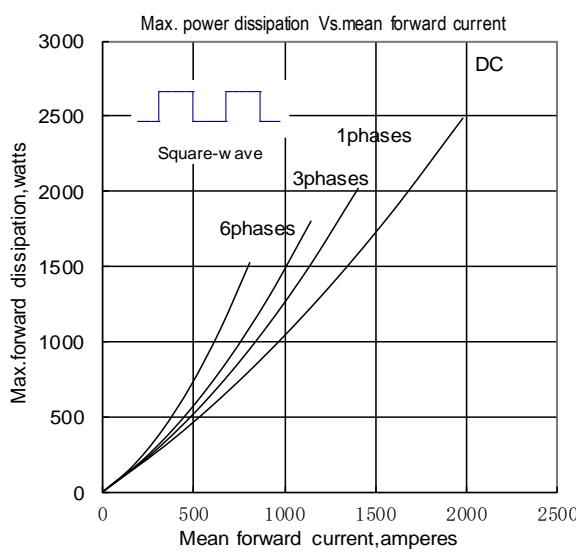


Fig.5

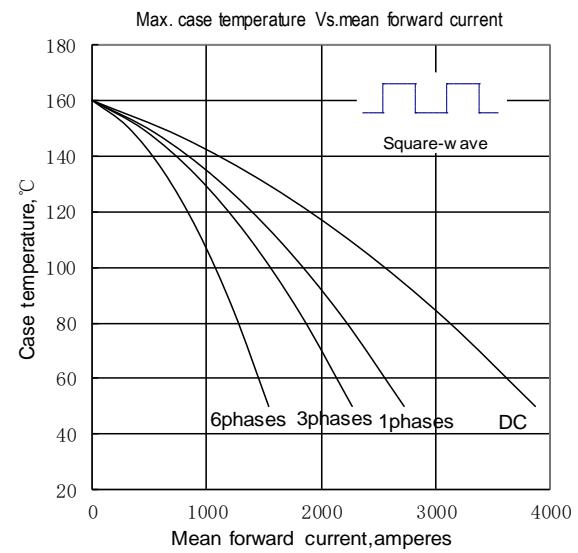


Fig.6

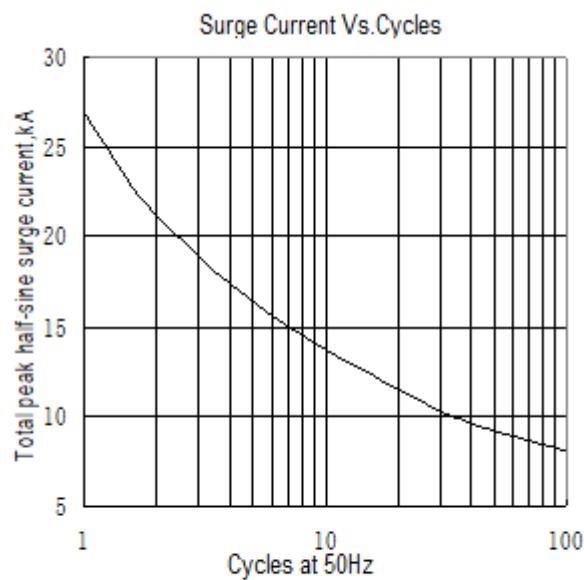


Fig.7

