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

$I_{F(AV)}$	**500A**
V_{RRM}	**5600 ～6500V**
I_{FSM}	**9.5 kA**
I^2t	**451 10^3A^2S**

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=100°C	150			500	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	5600		6500	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			50	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		150			9.5	kA
I^2t	I^2t for fusing coordination						451	A^2s*10^3
V_{FO}	Threshold voltage			150			0.89	V
r_F	Forward slope resistance						1.05	mΩ
V_{FM}	Peak forward voltage	I_{FM}=1000A, F=20kN		25			2.20	V
Q_{rr}	Recovery charge	I_{FM}=1000A, tp=4000μs, di/dt=-5A/μs, V_R=100V		150		2500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. Double side cooled Clamping force 20.0kN					0.045	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink						0.008	
F_m	Mounting force				10	15	20	kN
T_{vj}	Junction temperature				-40		150	°C
T_{stg}	Stored temperature				-40		160	°C
W_t	Weight					340		g
Outline	P39							

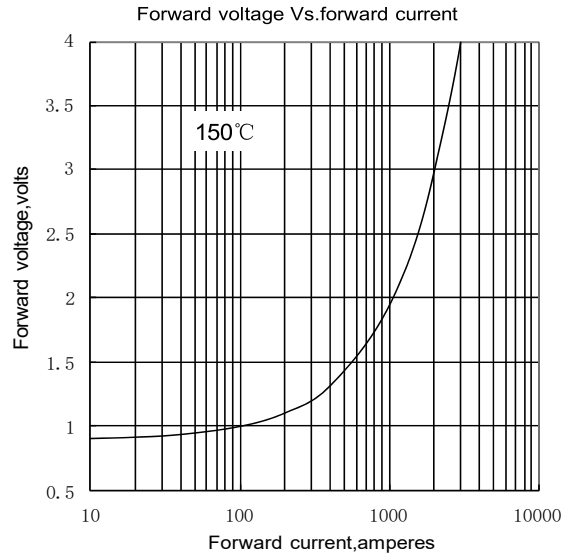

Fig.1

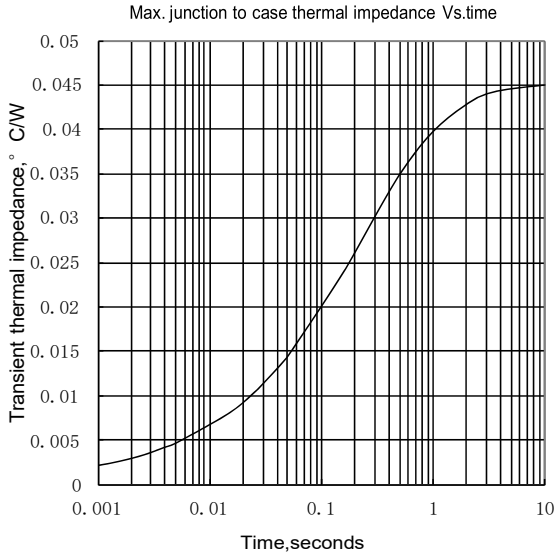

Fig.2

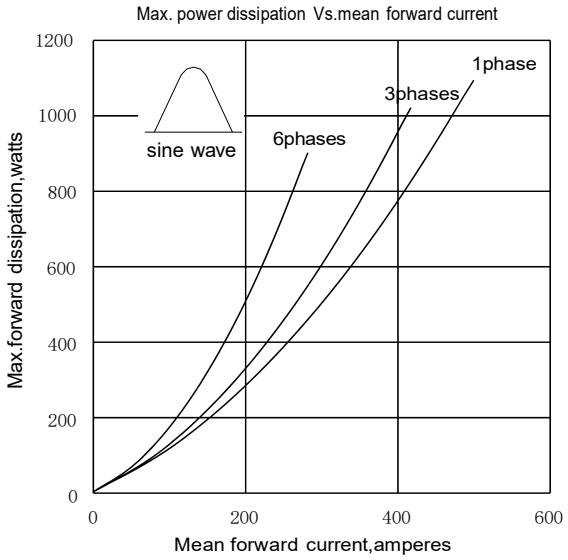

Fig.3

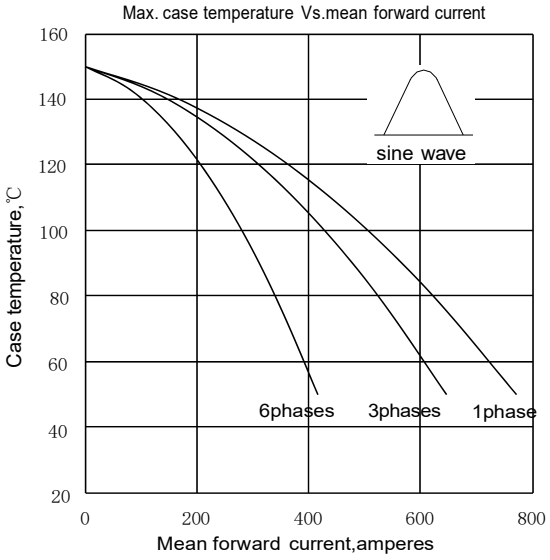

Fig.4

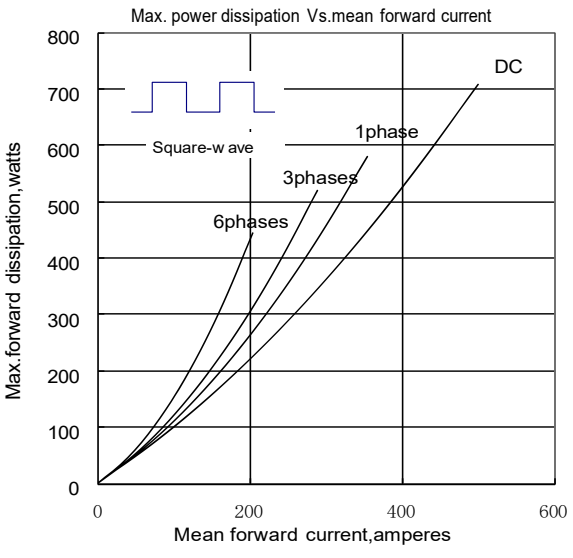

Fig.5

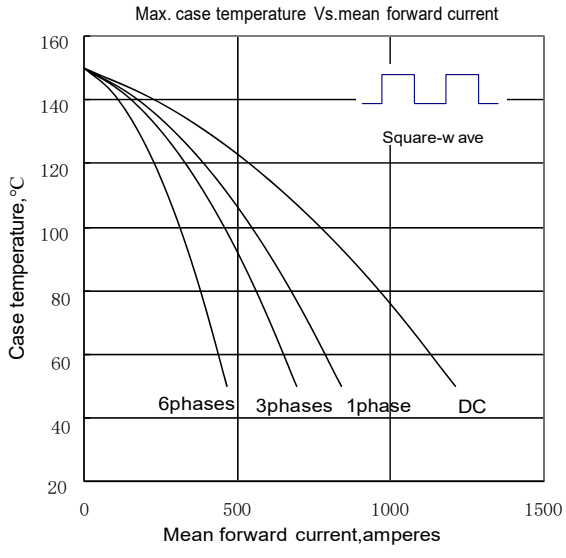

Fig.6

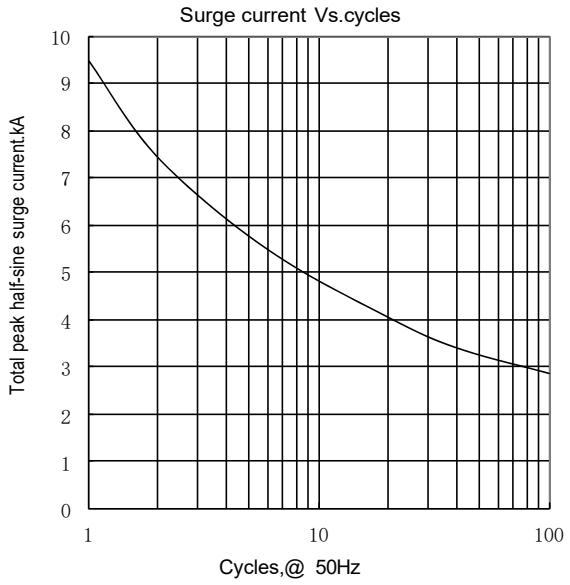

Fig.7

Outline: