

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

$I_{F(AV)}$	2000A
V_{RRM}	5600V ~ 6500V
I_{FSM}	35 kA
I^2t	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 =100°C	150			2000	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	5600		6500	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			300	mA
I_{FSM}	Surge forward current	10ms half sine wave		150			35	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					6125	10 ³ A ² s
V_{FO}	Threshold voltage			150			0.94	V
r_F	Forward slope resistance						0.27	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=3000A, F=47kN$		25			1.80	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, tp=4000\mu s, di/dt=-20A/\mu s, V_R=100V$		150		6500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force 47kN					0.011	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.003		
F_m	Mounting force				35		47	kN
T_{vj}	Junction temperature				-40		150	°C
T_{slg}	Stored temperature				-40		160	°C
W_t	Weight					1100		g
Outline	P46a							

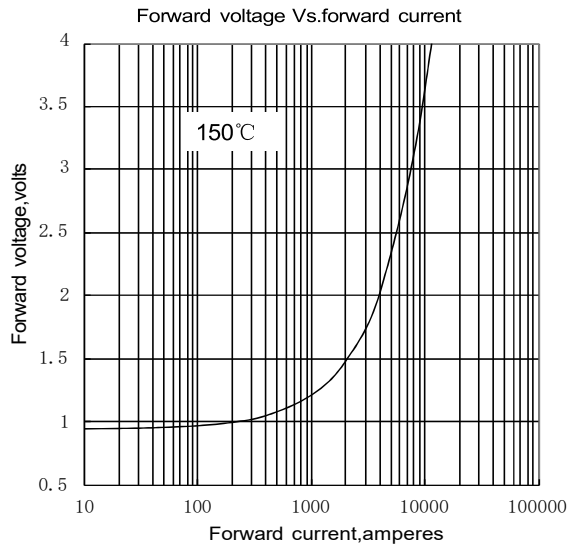


Fig.1

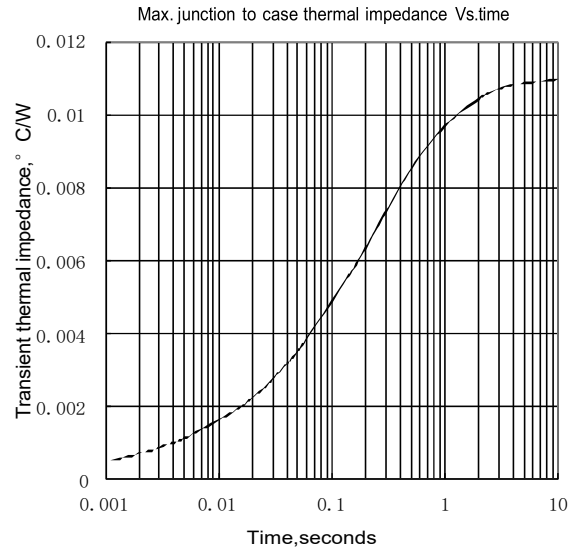


Fig.2

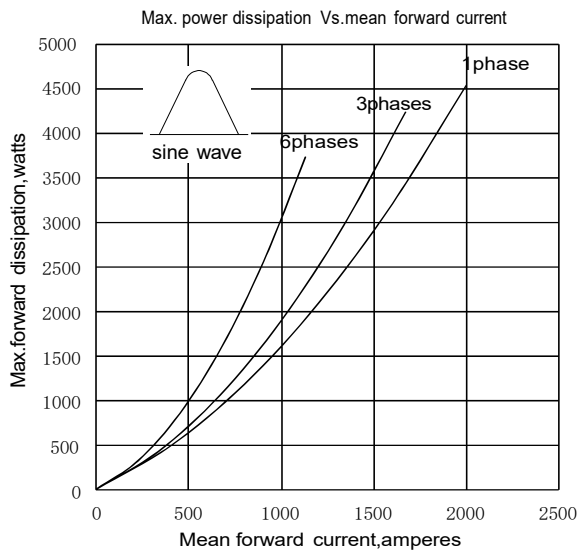


Fig.3

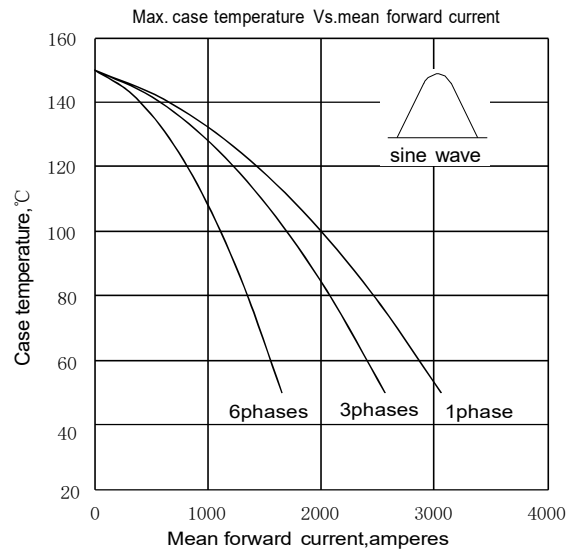


Fig.4

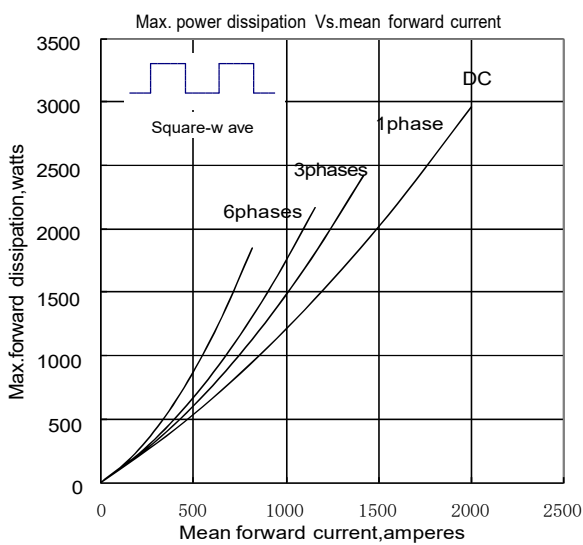


Fig.5

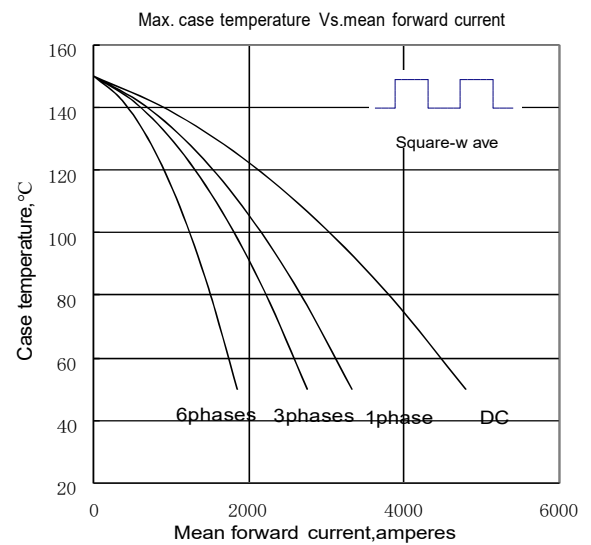


Fig.6

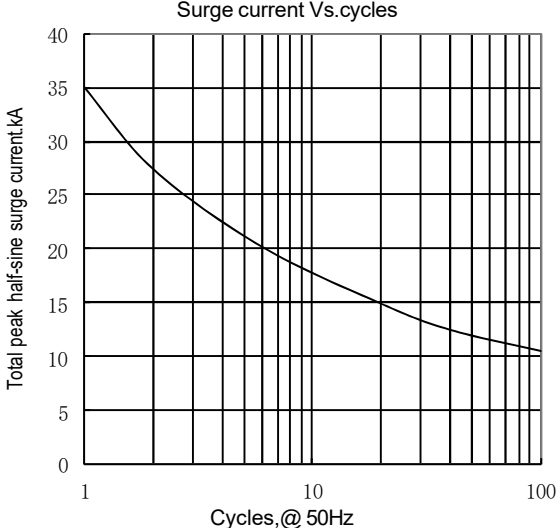


Fig7

Outline:

