

Features

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

$I_{F(AV)}$ 1700A
 V_{RRM} 200 ~1400V

Typical Applications

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

I_{FSM} 18 kA
 I^2t 1620 $10^3 A^2s$

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		$T_j(^{\circ}C)$	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	$T_c=85^{\circ}C$	190			1700	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		190	200		1400	V
I_{RRM}	Repetitive peak current	at V_{RRM}		190			40	mA
I_{FSM}	Surge forward current	10ms half sine wave		190			18	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					1620	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage			190			0.81	V
r_F	Forward slope resistance						0.23	m Ω
V_{FM}	Peak forward voltage	$I_{FM}=2400A, F=15kN$		25			2.0	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=4000\mu s, di/dt=-20A/\mu s, V_R=100V$		190		1900		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. Double side cooled Clamping force 15.0kN					0.035	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.008	
F_m	Mounting force				10		20	kN
T_{vj}	Junction temperature				-40		190	$^{\circ}C$
T_{stg}	Stored temperature				-40		190	$^{\circ}C$
W_t	Weight					240		g
Outline	P39							

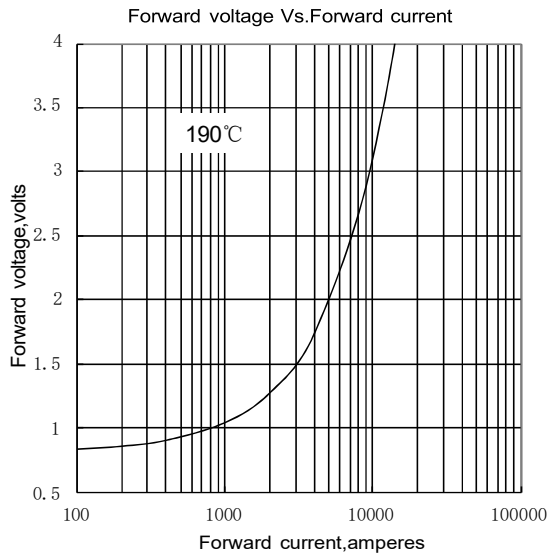


Fig.1

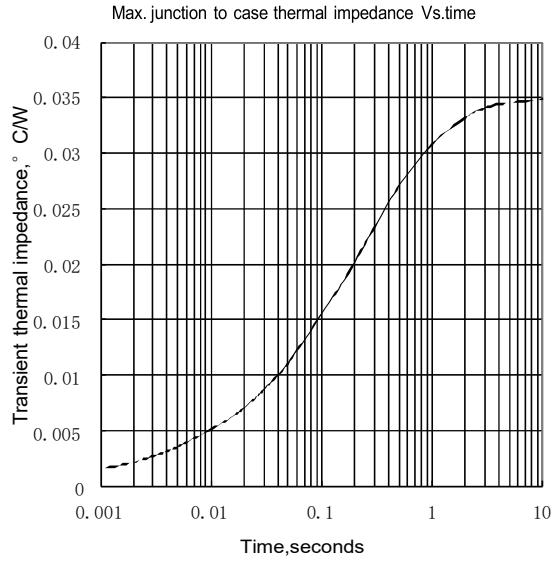


Fig.2

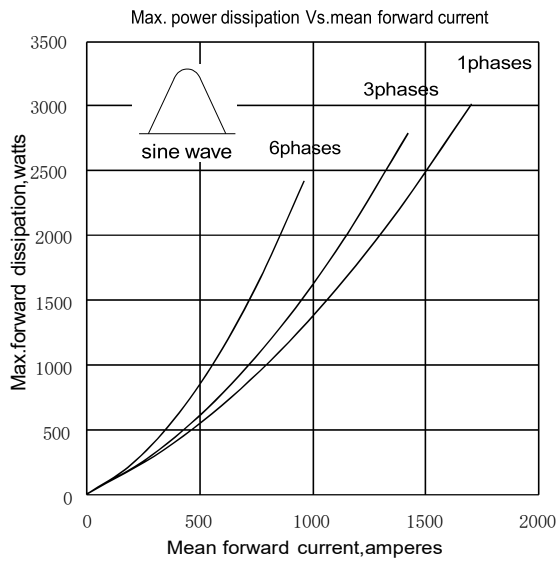


Fig.3

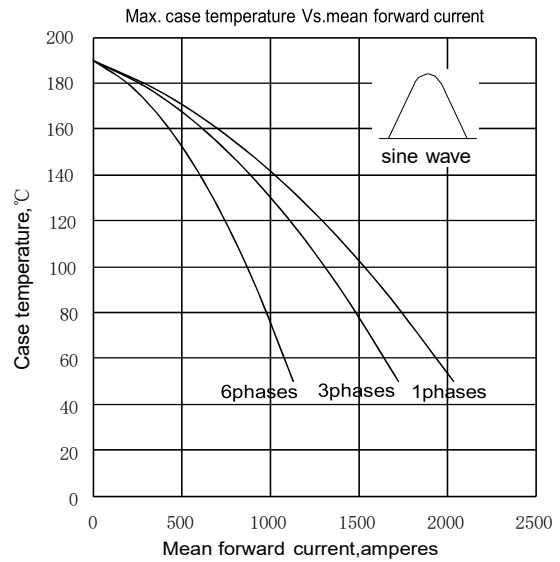


Fig.4

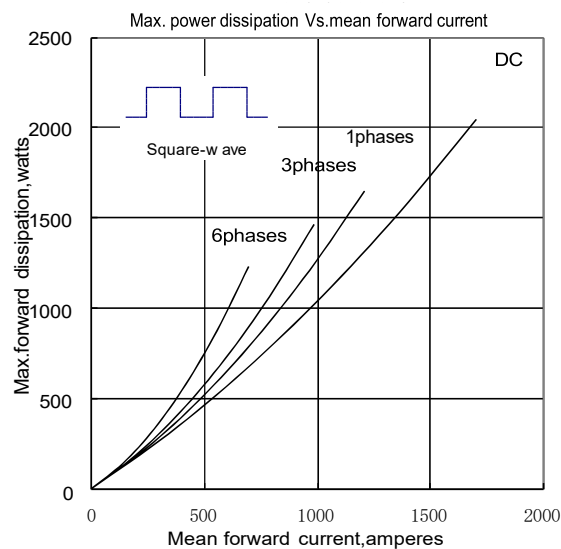


Fig.5

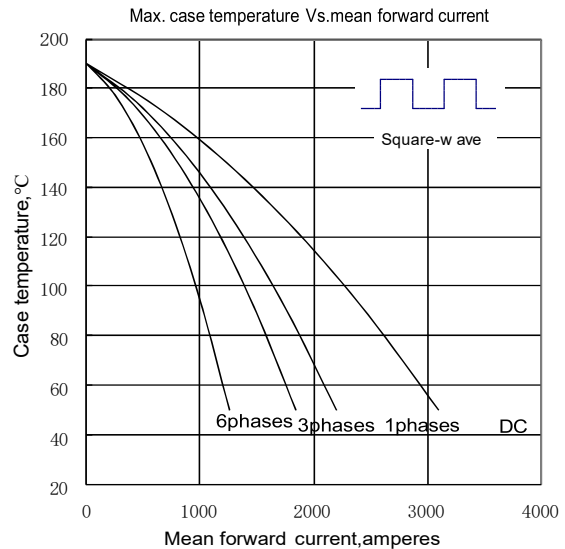


Fig.6

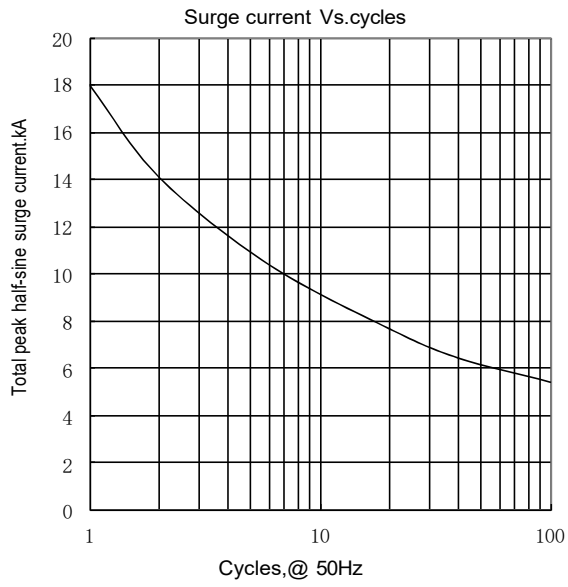


Fig.7

Outline:

