

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

$I_{F(AV)}$	5700A
V_{RRM}	200 ~ 400V
I_{FSM}	50 kA
I^2t	12500 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	190			5700	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		190	200		400	V
I_{RRM}	Repetitive peak current	at V _{RRM}		190			50	mA
I_{FSM}	Surge forward current	10ms half sine wave		190			50	kA
I^2t	I ² t for fusing coordination	V _R =0.6V _{RRM}					12500	A ² s*10 ³
V_{FO}	Threshold voltage			190			0.73	V
r _F	Forward slope resistance						0.025	mΩ
V_{FM}	Peak forward voltage	I _{FM} =5000A, F=24kN		25			1.25	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=4000μs, di/dt=-20A/μs, V _R =100V		190		1000		μC
R _{th(j-c)}	Thermal resistance Junction to case	D.C. double side cooled Clamping force 24kN					0.017	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink						0.004	
F _m	Mounting force				19		26	kN
T _{vj}	Junction temperature				-40		190	°C
T _{stg}	Stored temperature				-40		190	°C
W _t	Weight					440		g
Outline	P42							

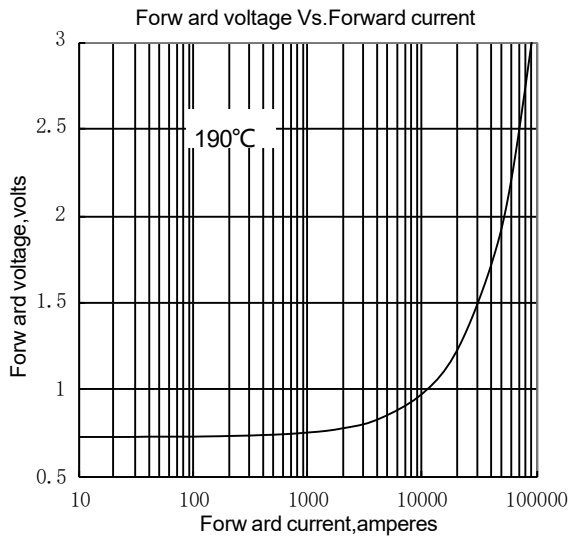


Fig1

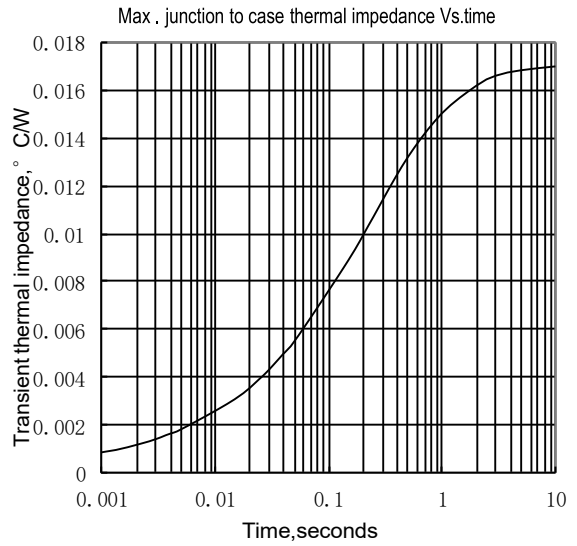


Fig2

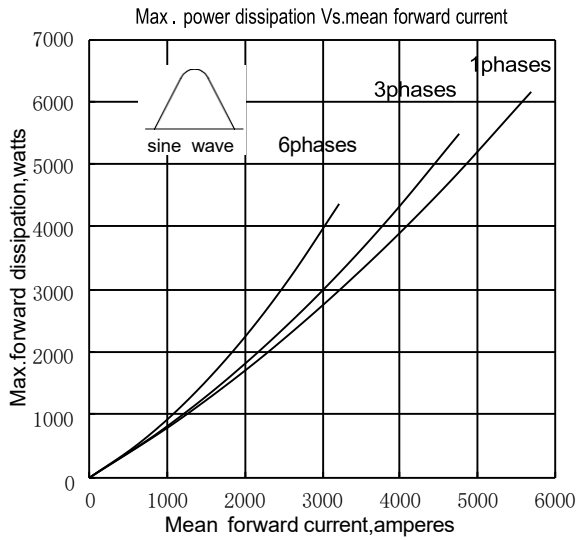


Fig3

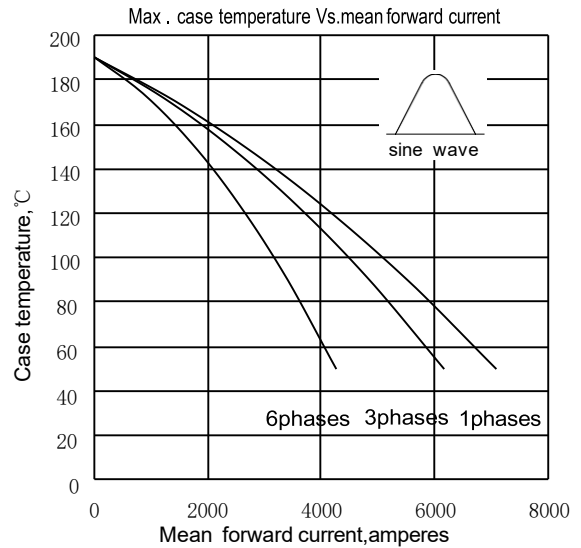


Fig4

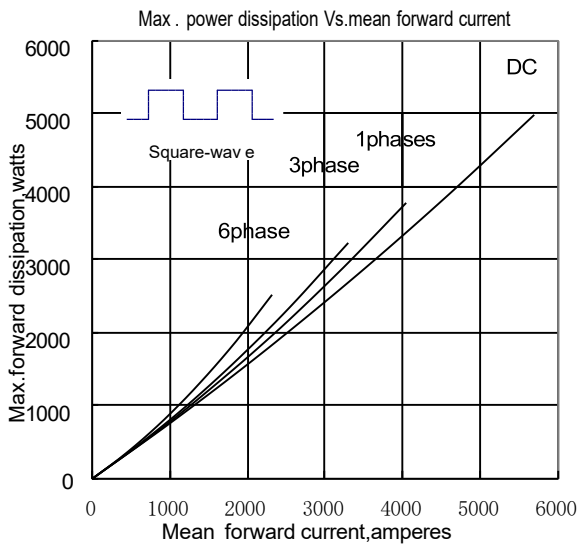


Fig5

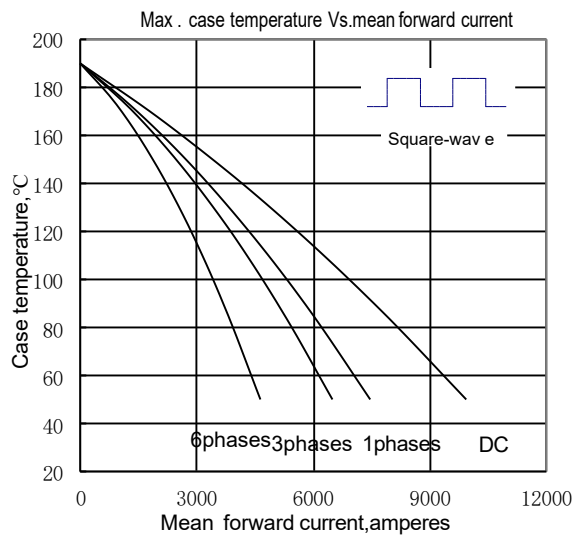


Fig6

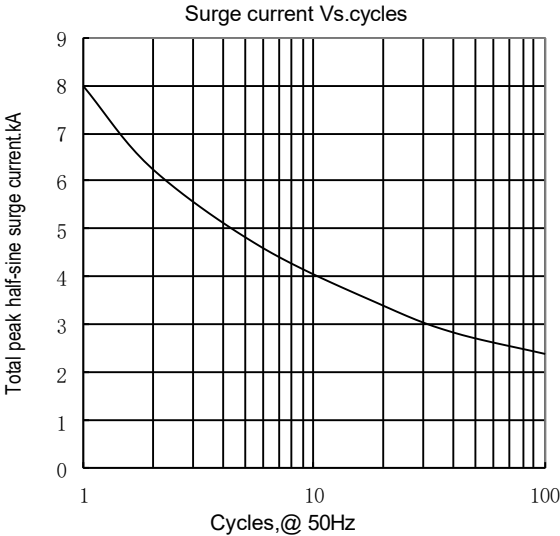


Fig7

Outline:

