

Features

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

$I_{F(AV)}$ **3290A**
 V_{RRM} **4300V ~ 5000V**

Typical Applications

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

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 =85°C	150			3290	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	4300		5000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		150			200	mA
I_{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}		150			35	kA
I^2t	I ² t for fusing coordination						6125	A ² s*10 ³
V_{FO}	Threshold voltage			150			0.88	V
r _F	Forward slope resistance						0.12	mΩ
V_{FM}	Peak on-state voltage	I _{FM} =4000A, F=40kN		25			2.00	V
Q_{rr}	Recovery charge	I _{FM} =2000A, tp=4000μs, di/dt=-20A/μs, V _R =100V		150		6000		μC
R _{th(j-c)}	Thermal resistance Junction to case	D.C. double side cooled Clamping force 40kN					0.010	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink						0.003	
F _m	Mounting force				35		47	kN
T _{vj}	Junction temperature				-40		150	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					1100		g
Outline	P46a							

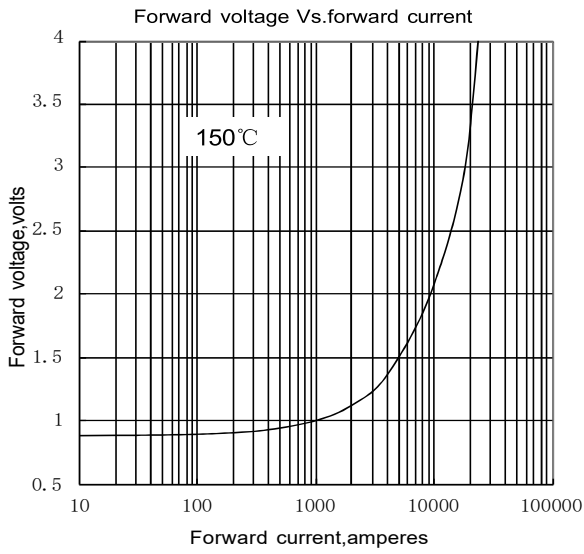


Fig.1

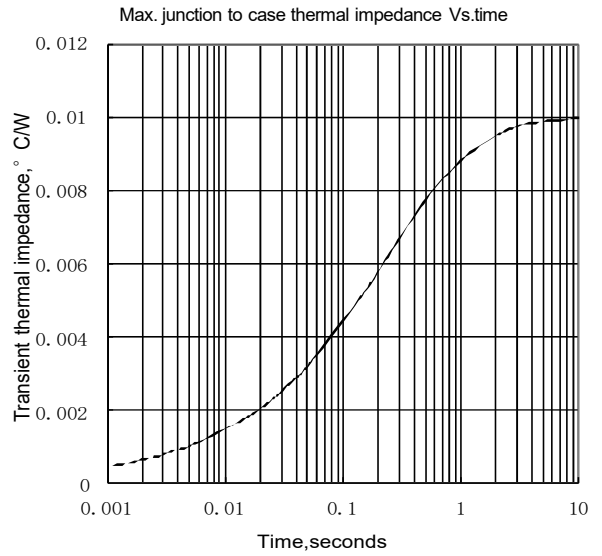


Fig.2

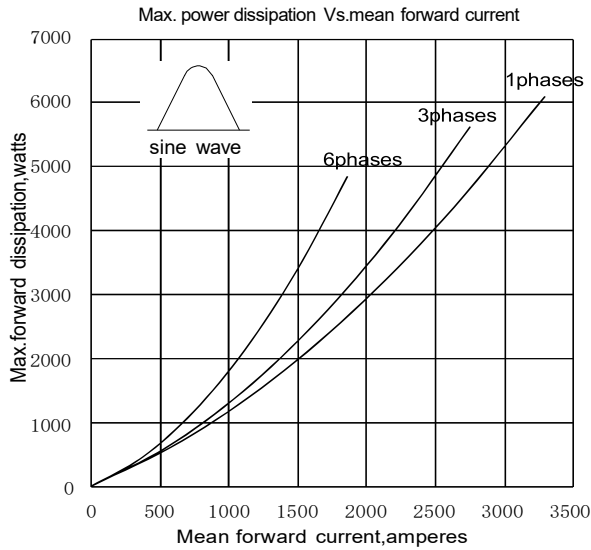


Fig.3

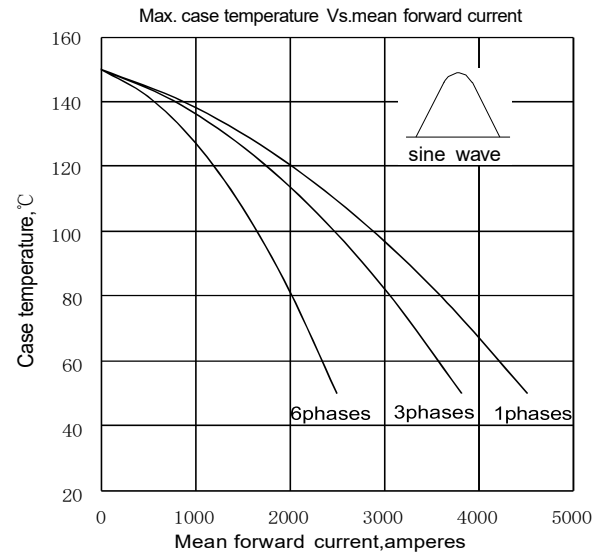


Fig.4

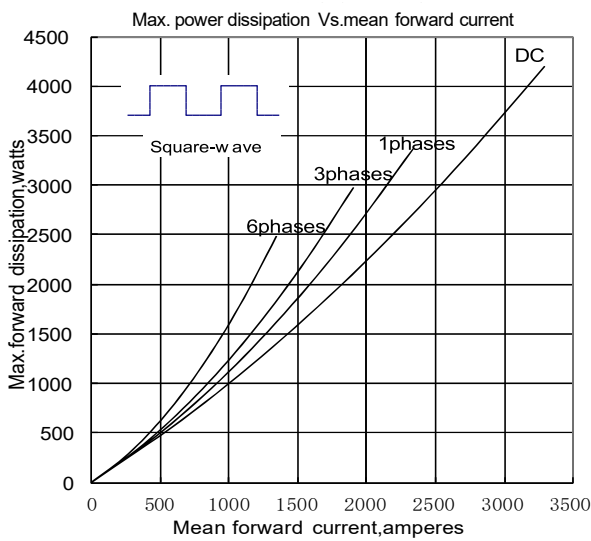


Fig.5

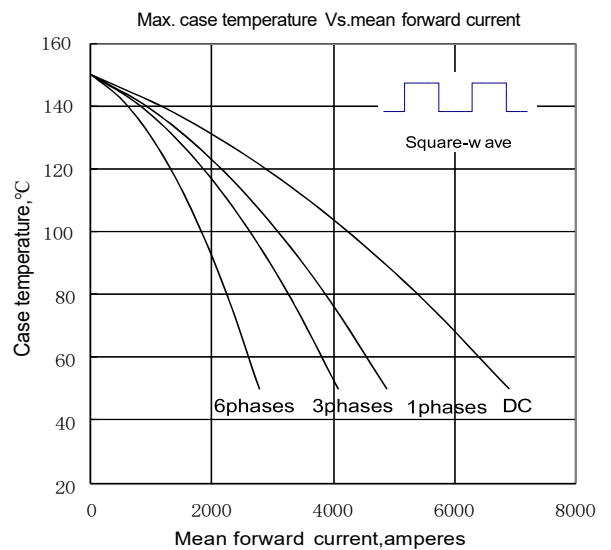


Fig.6

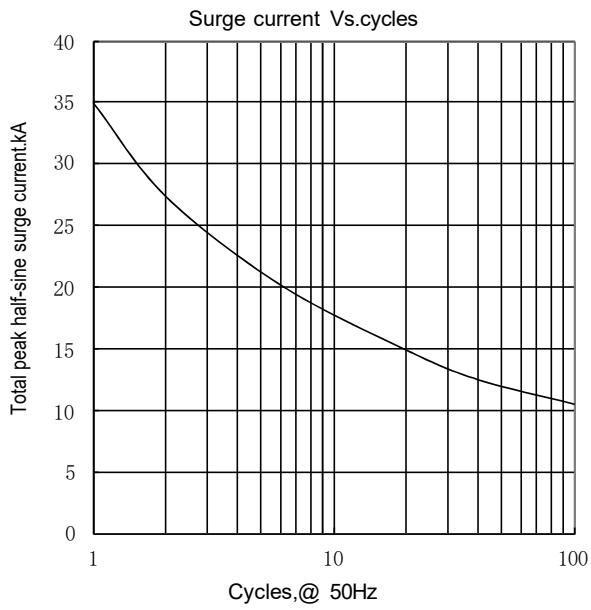


Fig.7

Outline:

