

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

$I_{F(AV)}$ **3520A**
 V_{RRM4} **1100V ~ 2000V**
 I_{FSM} **34 kA**
 I^2t **5780 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	175			3520	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		175	1100		2000	V
I_{RRM}	Repetitive peak current	At V_{RRM}		175			120	mA
I_{FSM}	Surge forward current	10ms half sine wave		175			34	kA
I^2t	I ² t for fusing coordination	$V_R=0.6V_{RRM}$					5780	A ² s*10 ³
V_{FO}	Threshold voltage			175			0.73	V
r_F	Forward slope resistance						0.10	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=4000A, F=28kN$		25			2.0	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, tp=4000\mu s, di/dt=-20A/\mu s, V_R=100V$		175		5000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force 28kN					0.016	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.004	
F_m	Mounting force				21		30	kN
T_{vj}	Junction temperature				-40		175	°C
T_{slg}	Stored temperature				-40		175	°C
W_t	Weight					640		g
Outline	P43							

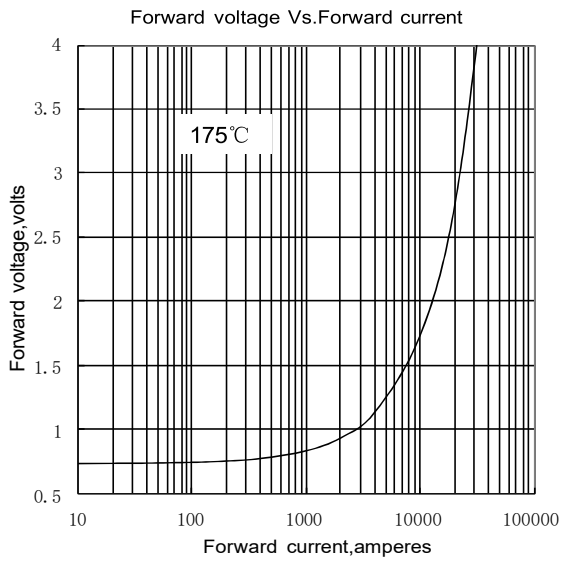


Fig.1

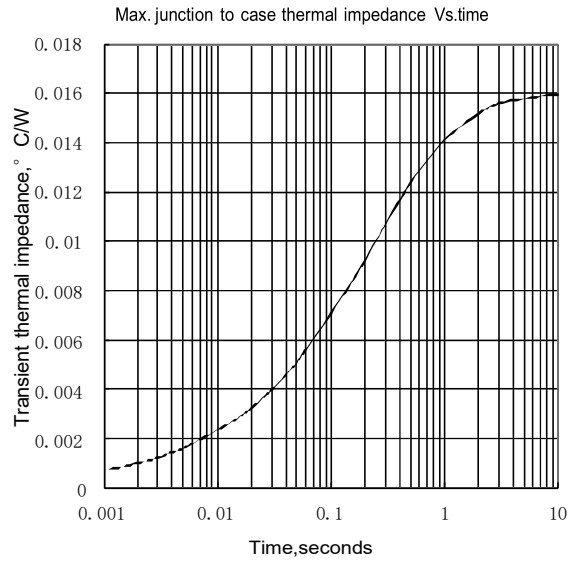


Fig.2

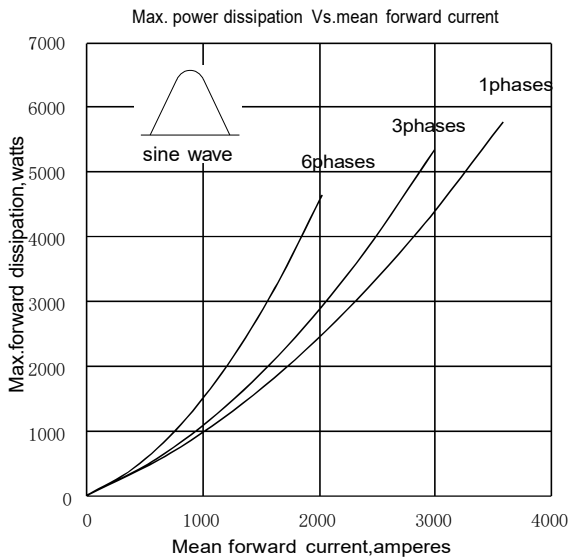


Fig.3

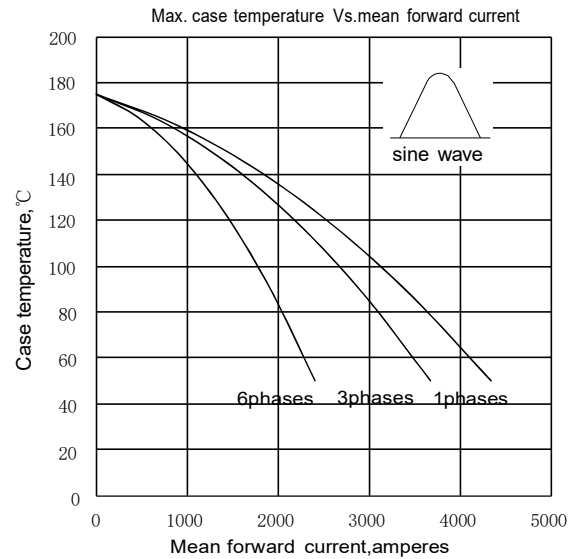


Fig.4

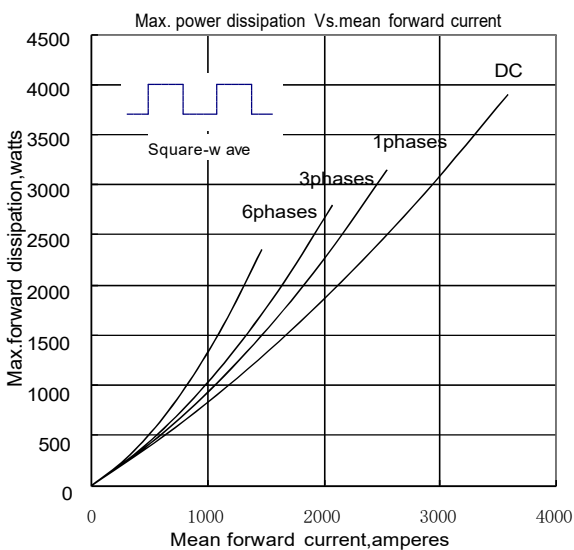


Fig.5

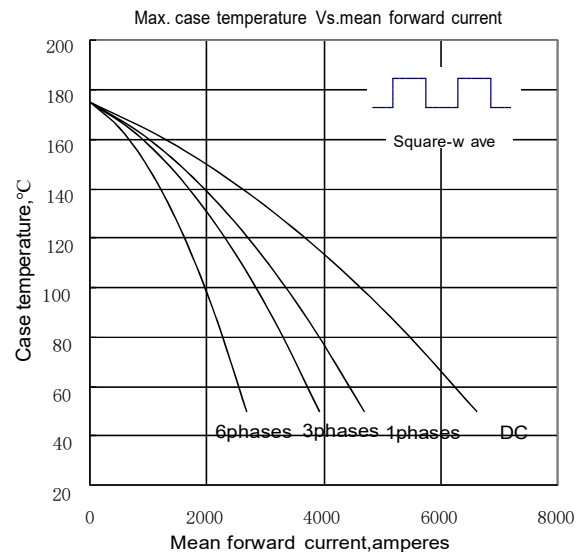


Fig.6

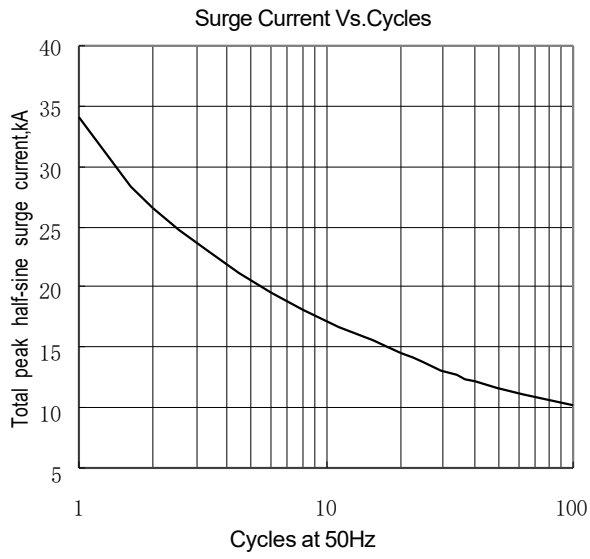


Fig.7

Outline:

