

Features

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

$I_{F(AV)}$ 1770A
 V_{RRM} 3100V ~ 4200V

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 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	160			1770	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		160	3100		4200	V
I_{RRM}	Repetitive peak current	at V_{RRM}		160			80	mA
I_{FSM}	Surge forward current	10ms half sine wave		160			18	kA
I^2t	I ² t for fusing coordination	$V_R=0.6V_{RRM}$					1620	A ² s*10 ³
V_{FO}	Threshold voltage			160			0.98	V
r_F	Forward slope resistance						0.26	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=2400A, F=24kN$		25			2.0	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=4000\mu s, di/dt=-20A/\mu s, V_R=100V$		160		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force 24kN					0.020	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.005	
F_m	Mounting force				19		26	kN
T_{vj}	Junction temperature				-40		160	°C
T_{slg}	Stored temperature				-40		160	°C
W_t	Weight					440		g
Outline	P42							

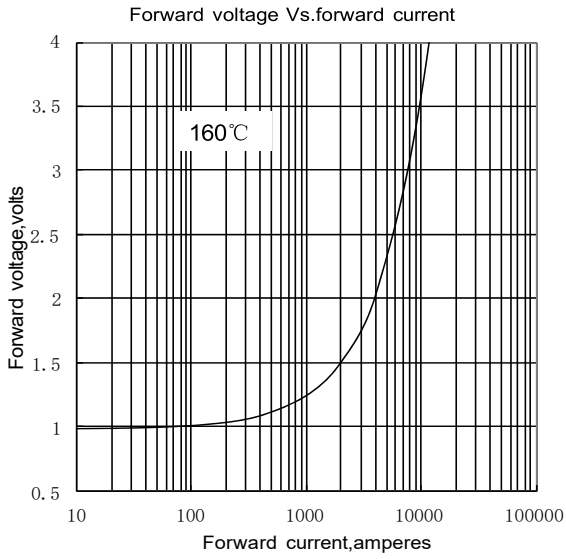


Fig.1

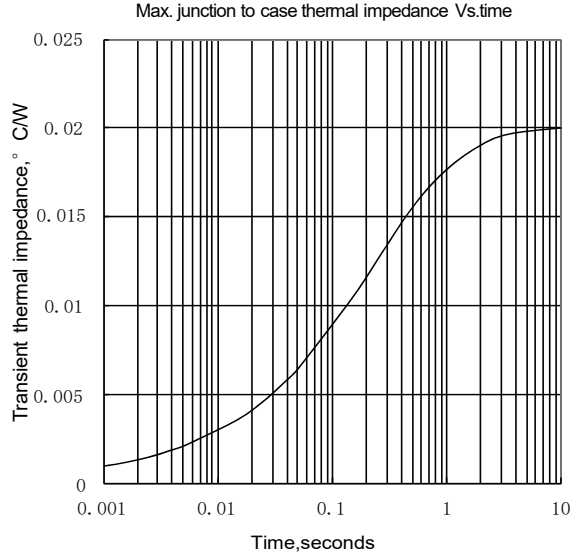


Fig.2

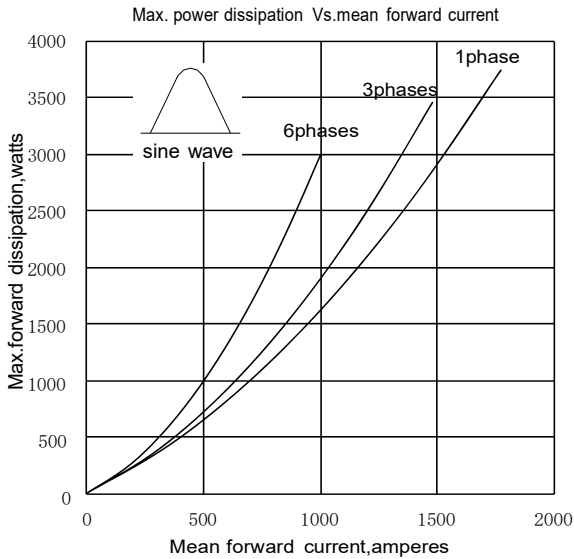


Fig.3

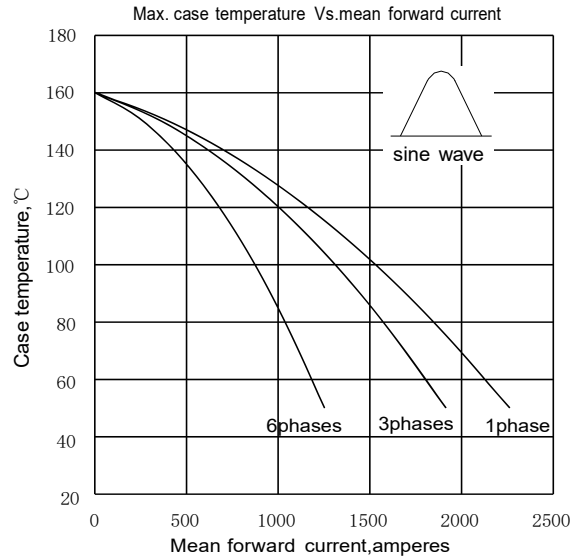


Fig.4

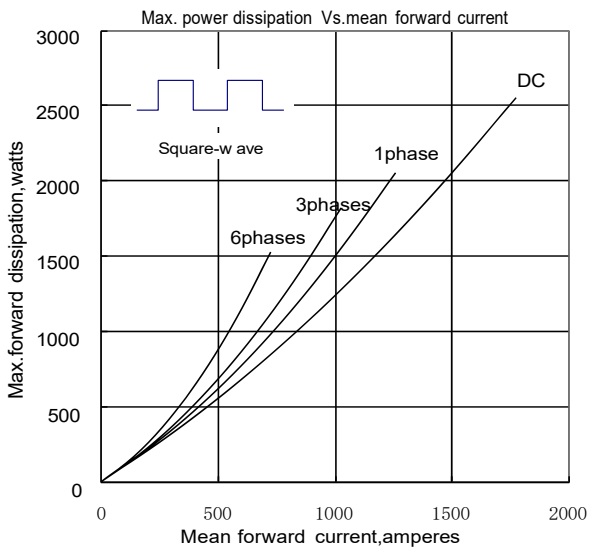


Fig.5

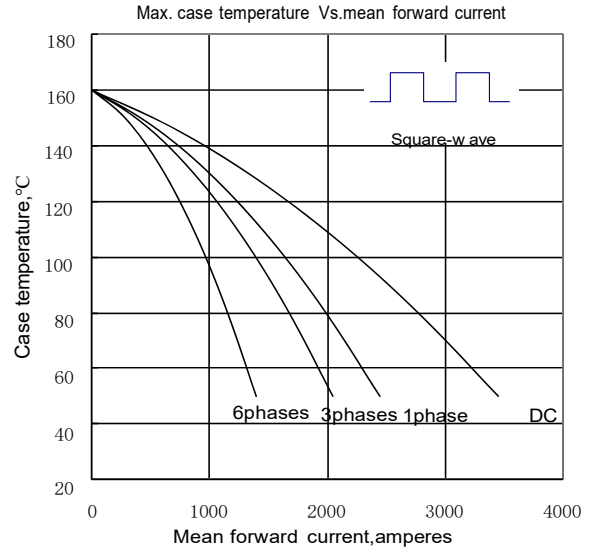


Fig.6

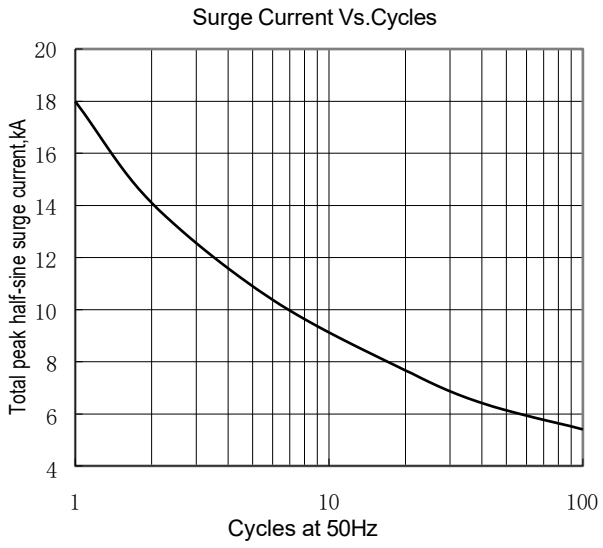


Fig.7

Outline:

