

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

$I_{F(AV)}$ **1790 A**
 V_{RRM} **1100~2000 V**
 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	175			1790	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	175	1100		2000	V
I _{R(RM)}	Repetitive peak current	at V _{RRM}	175			50	mA
I _{FSM}	Surge forward current	10ms half sine wave	175			18	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					1620
V _{FO}	Threshold voltage		175			0.90	V
r _F	Forward slope resistance						0.204
V _{FM}	Peak forward voltage	I _{FM} =3000A, F=18kN	175			1.50	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V	175		1900		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 18.0kN				0.028	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.0075	
F _m	Mounting force			10		20	kN
T _{stg}	Stored temperature			-40		175	°C
W _t	Weight				320		g
Outline	P40						

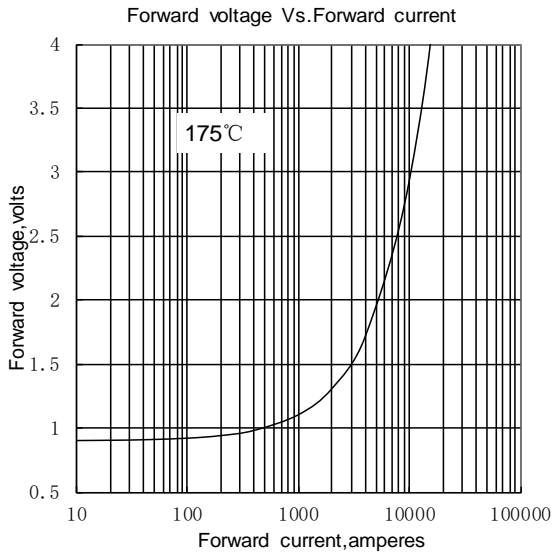


Fig.1

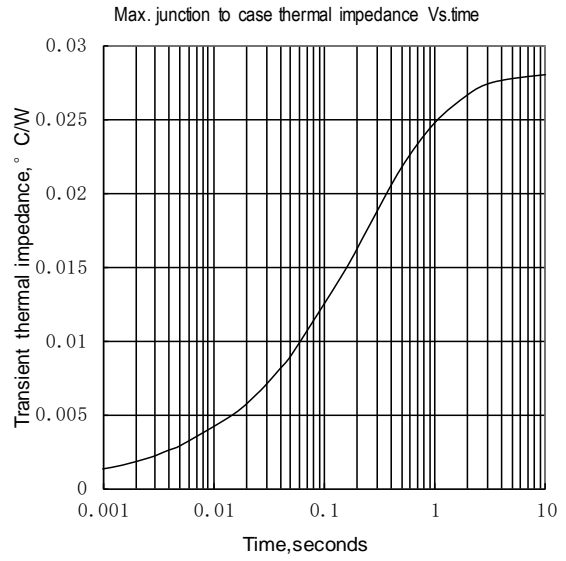


Fig.2

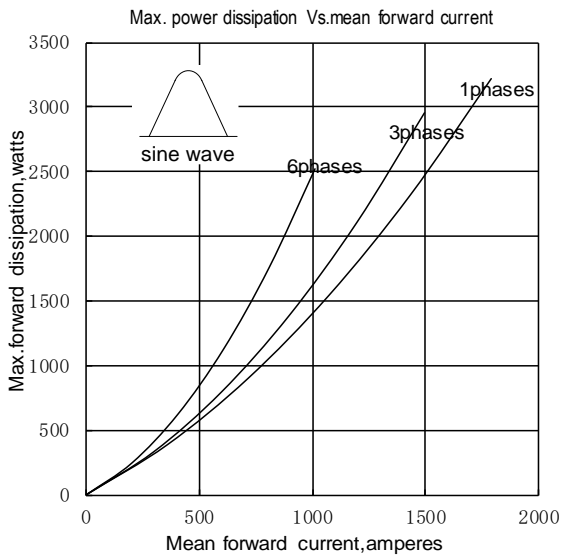


Fig.3

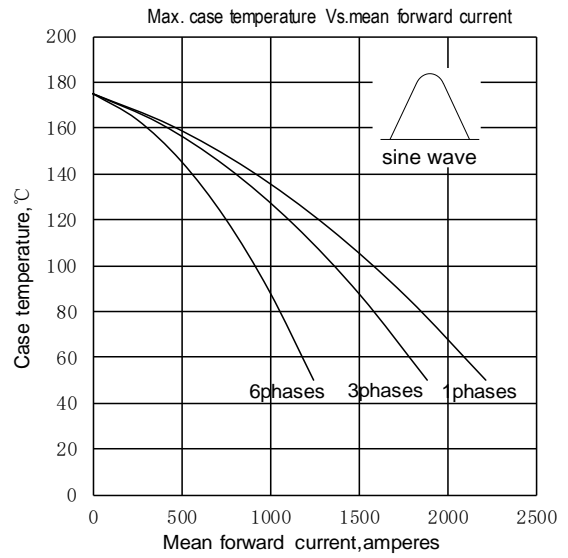


Fig.4

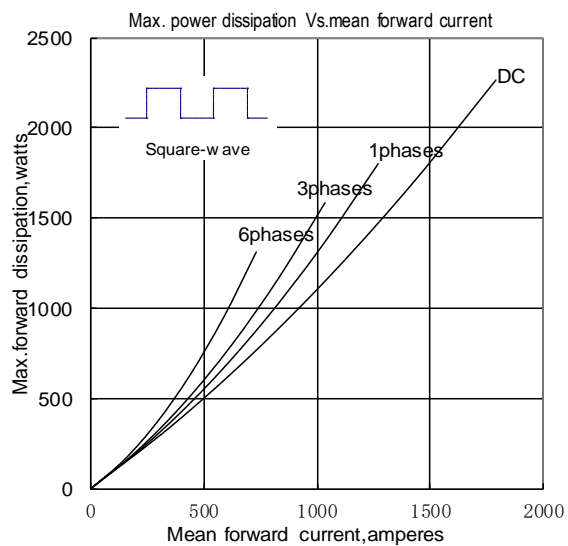


Fig.5

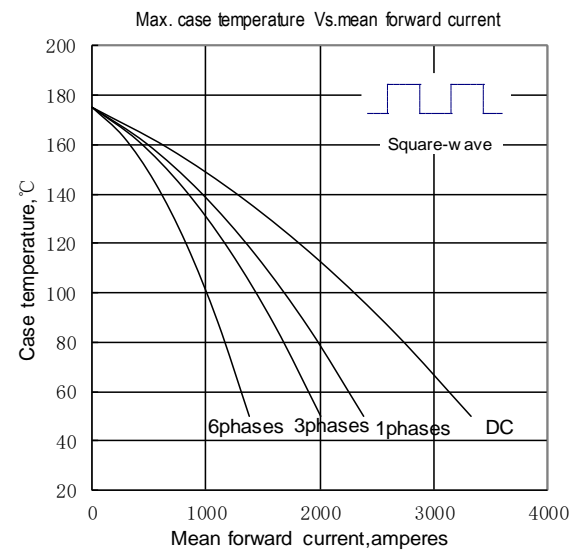


Fig.6

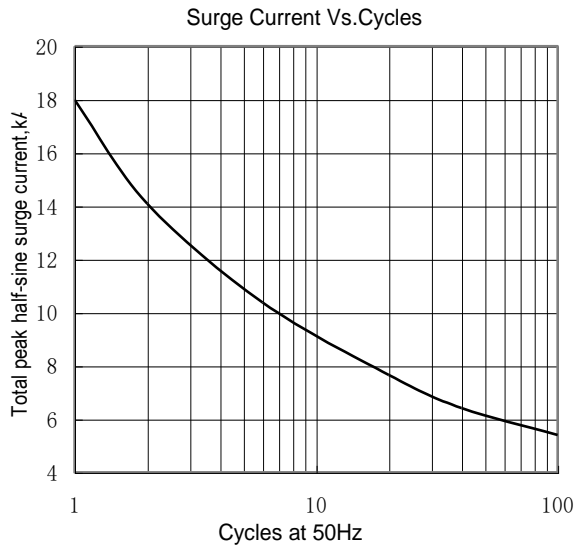


Fig.7

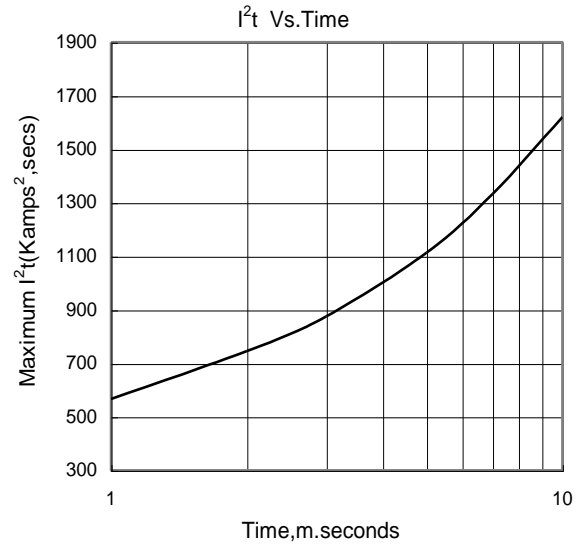


Fig.8

