

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

$I_{F(AV)}$ **1230 A**
 V_{RRM} **200~1000 V**
 I_{FSM} **11 kA**
 I^2t **605 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			1230	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		190	200		1000	V
I _{RRM}	Repetitive peak current	at V _{RRM}		190			30	mA
I _{FSM}	Surge forward current	10ms half sine wave		190			11	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					605	A ² s*10 ³
V _{FO}	Threshold voltage			190			0.95	V
r _F	Forward slope resistance						0.31	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1200A, F=7.0kN		25			1.80	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=1000μs, di/dt=-20A/μs, V _R =50V		190		1600		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine: double side cooled Clamping force 7.0kN					0.045	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.010		
F _m	Mounting force				5.3		10	kN
T _{stg}	Stored temperature				-40		190	°C
W _i	Weight					80		g
Outline	ZT25aT							

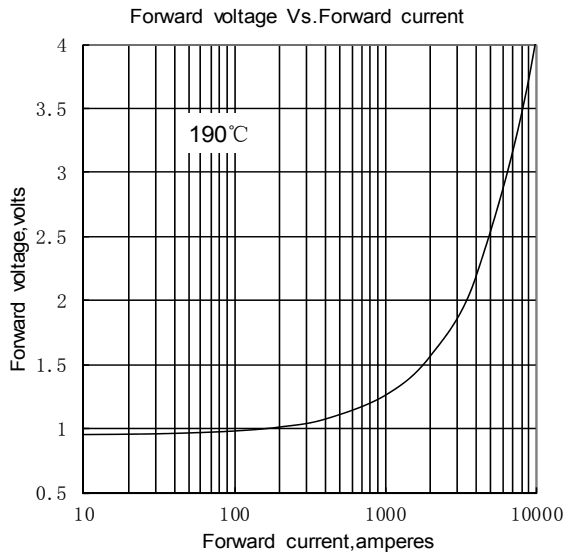


Fig1

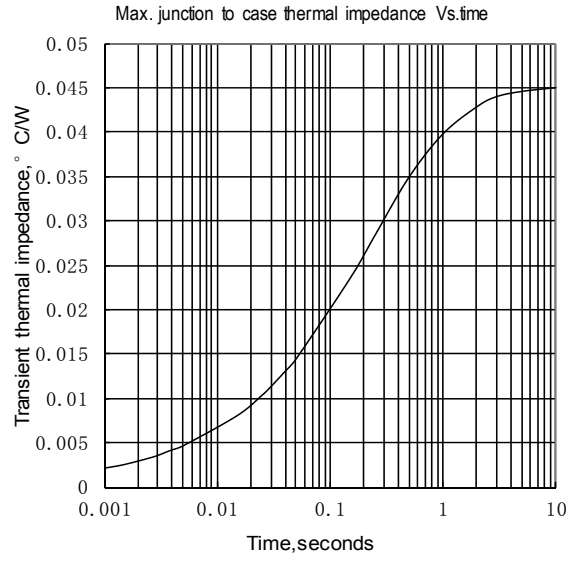


Fig2

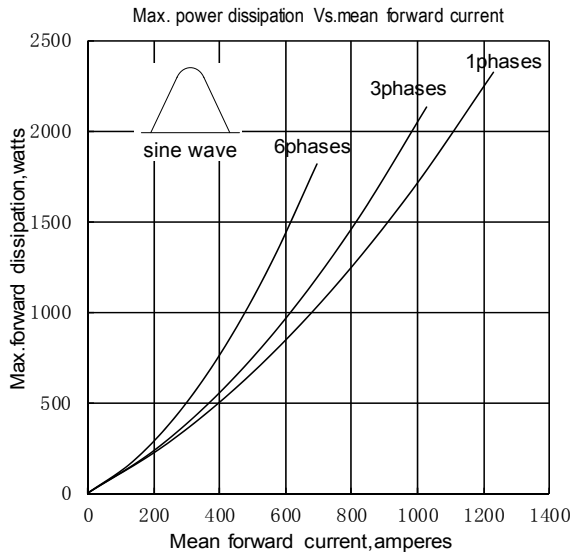


Fig3

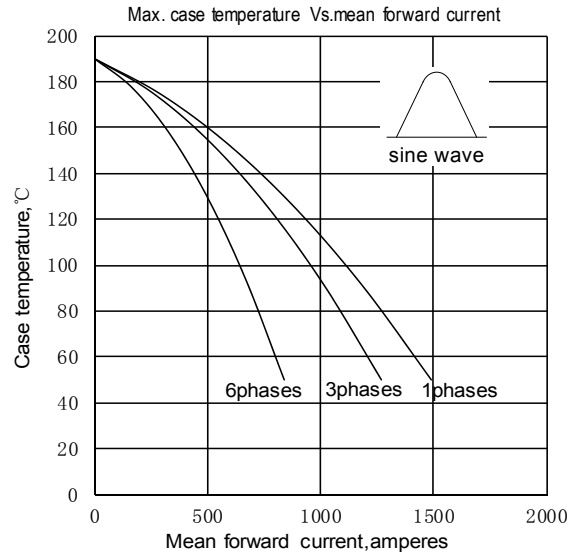


Fig4

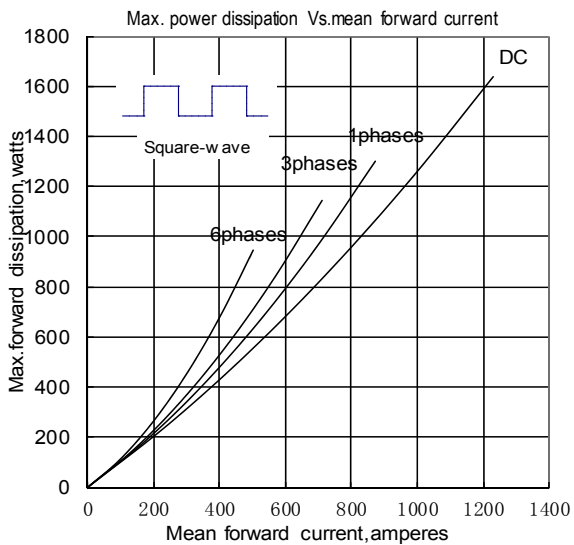


Fig5

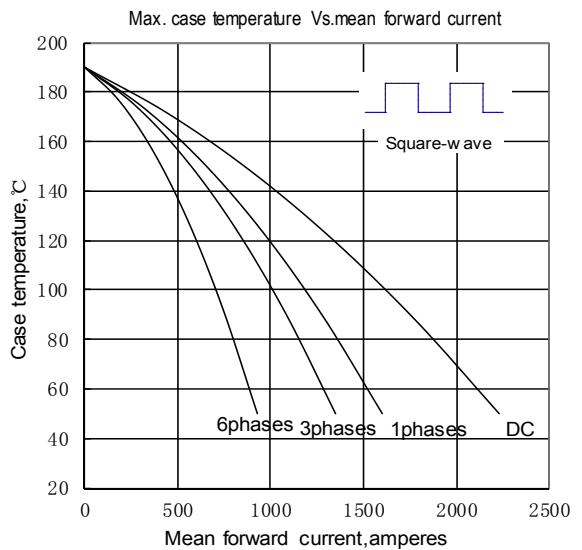


Fig6

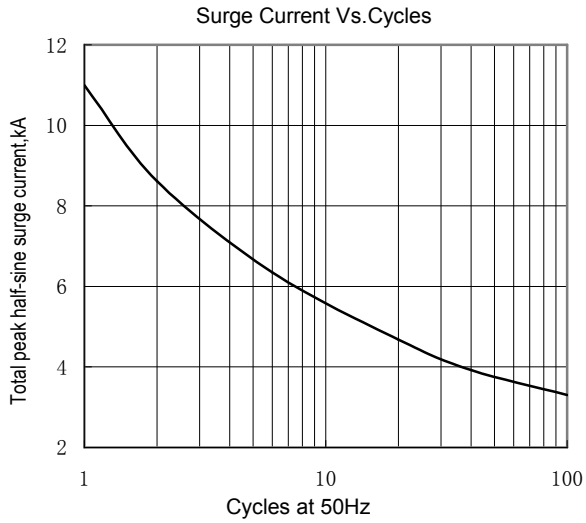


Fig.7

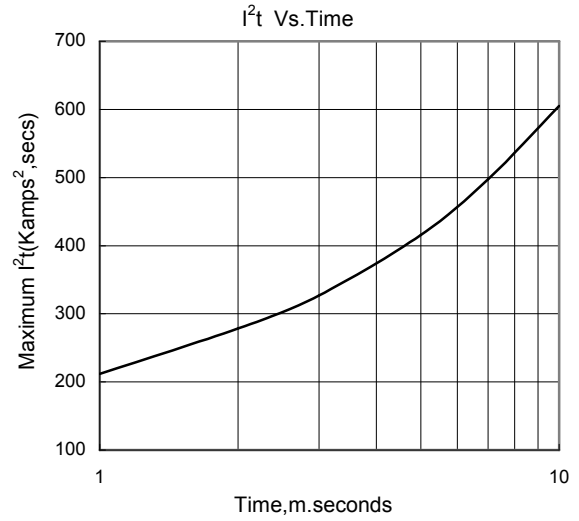


Fig.8

Outline:

