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

$I_{F(AV)}$	**1290A**
V_{RRM}	**1100~2000 V**
I_{FSM}	**15 kA**
I^2t	**1125 10^3A^2S**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE Min	Type	Max	UNIT
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T_C=85°C	175			1290	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	175	1100		2000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	175			40	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	175			15	kA
I^2t	I^2t for fusing coordination					1125	A^2s*10^3
V_{FO}	Threshold voltage		175			1.05	V
r_F	Forward slope resistance					0.30	mΩ
V_{FM}	Peak forward voltage	I_{FM}=1800A, F=15kN	25			1.80	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 180^0 sine, double side cooled Clamping force 15.0kN				0.035	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.008	
F_m	Mounting force			10		20	kN
T_{stg}	Stored temperature			-40		175	°C
W_t	Weight				240		g
Outline	ZT33cT						

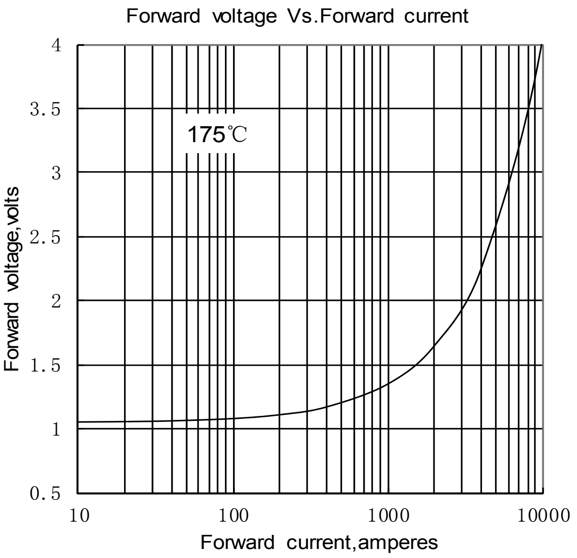

Fig.1

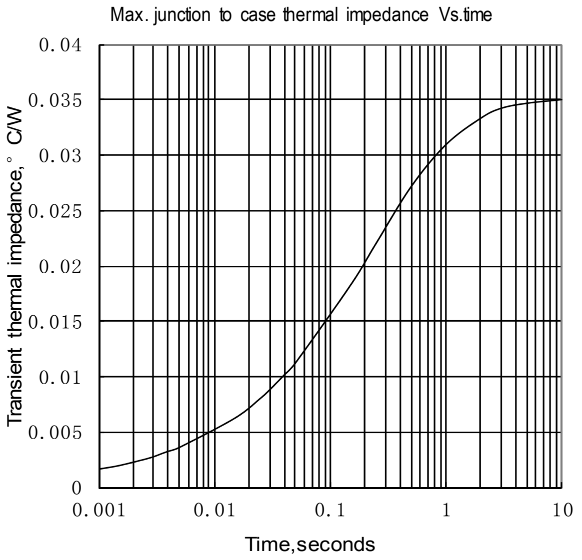

Fig.2

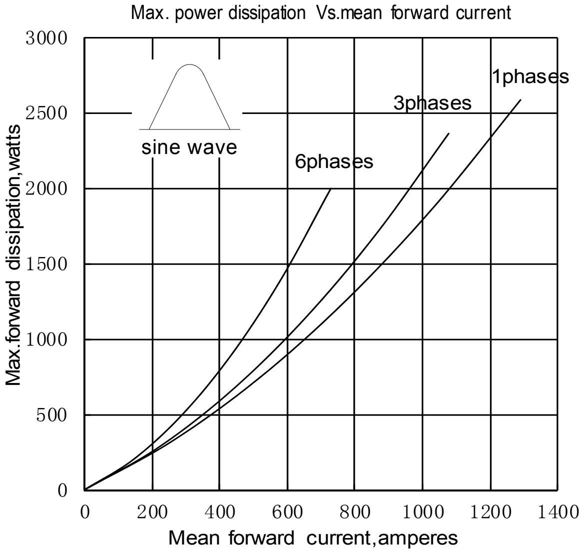

Fig.3

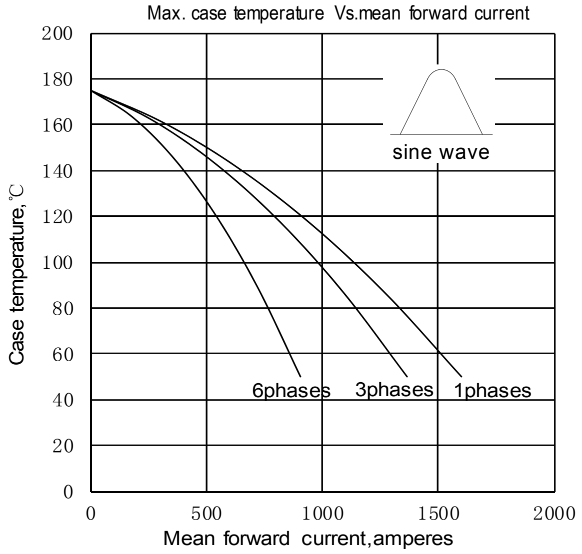

Fig.4

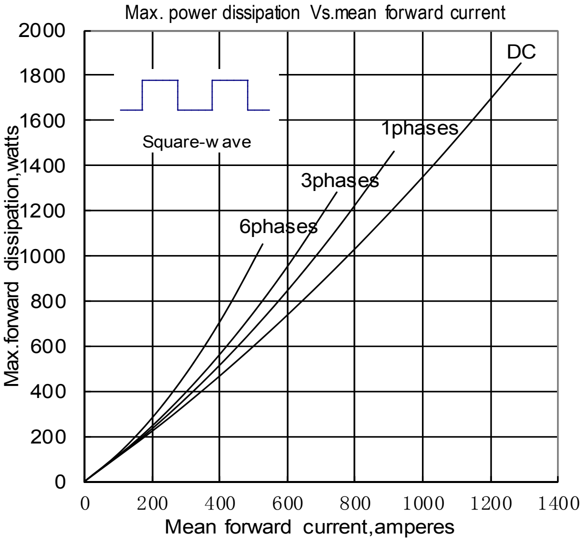

Fig.5

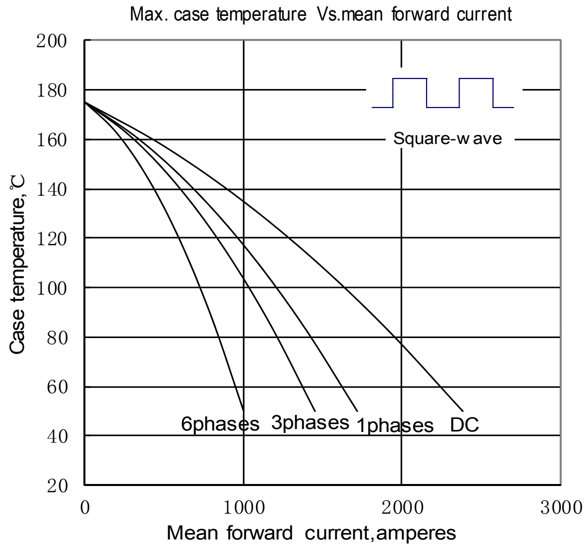

Fig.6

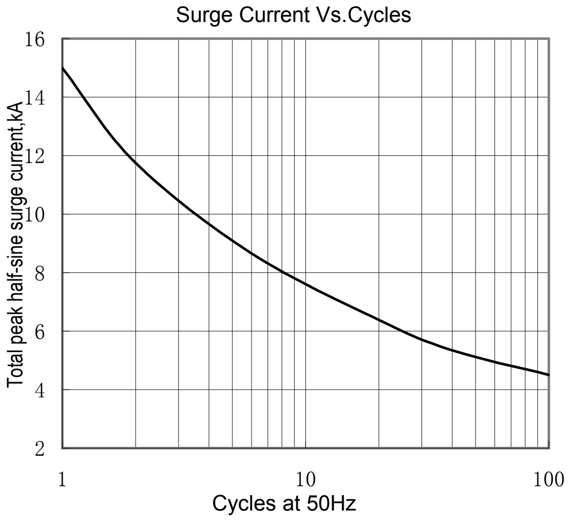

Fig.7

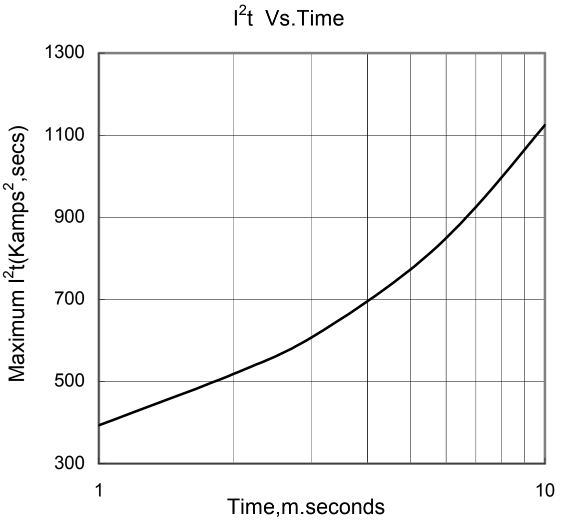

Fig.8

Outline: