

### 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

$I_{F(AV)}$       **5060A**  
 $V_{RRM}$         **2100~3000 V**  
 $I_{FSM}$         **63 kA**  
 $I^2t$             **19845 10<sup>3</sup>A<sup>2</sup>S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Double side cooled,	160			6240	A
						T <sub>C</sub> =55°C	
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	160	2100		3000	V
I <sub>RRM</sub>	Repetitive peak current	V <sub>RM</sub> = V <sub>RRM</sub>	160			200	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	160			63	kA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				19845	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		160			0.90	V
r <sub>F</sub>	Forward slop resistance					0.098	mΩ
V <sub>FM</sub>	Peak on-state voltage	I <sub>FM</sub> =5000A, F=70kN	160			1.39	V
Q <sub>rr</sub>	Recovery charge	I <sub>FM</sub> =2000A, tp=2000μs, di/dt=-20A/μs, V <sub>R</sub> =50V	160		7000		μC
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 70kN				0.007	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.002	
F <sub>m</sub>	Mounting force			63		84	kN
T <sub>stg</sub>	Stored temperature			-40		160	°C
W <sub>t</sub>	Weight				1390		g
Outline	ZT84cT						

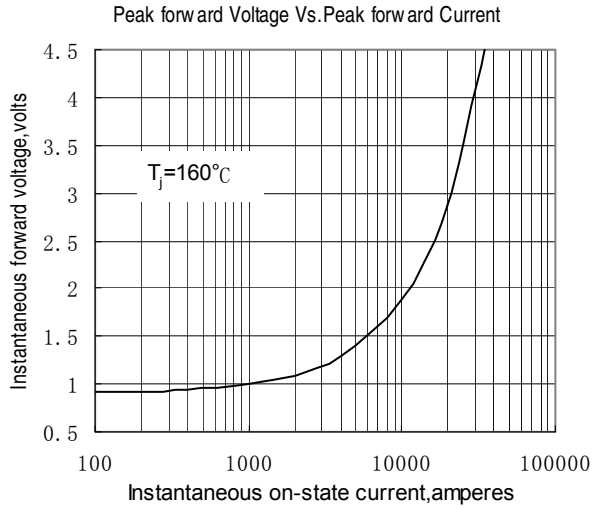


Fig.1

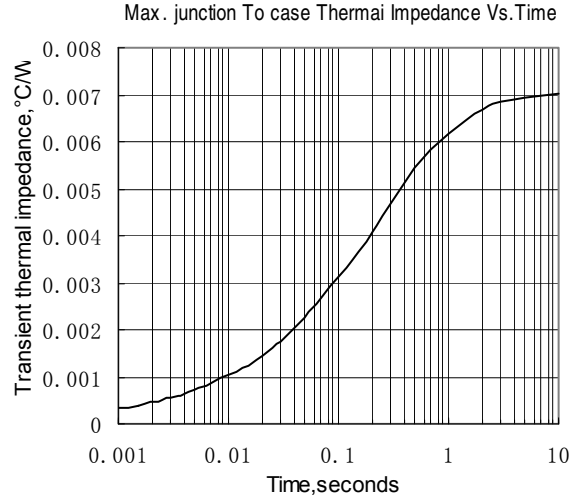


Fig.2

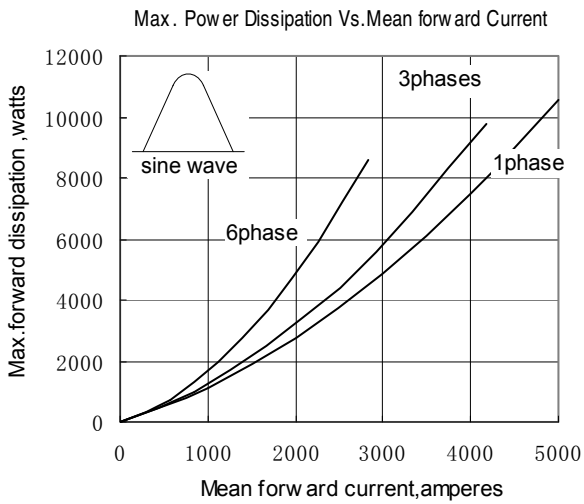


Fig.3

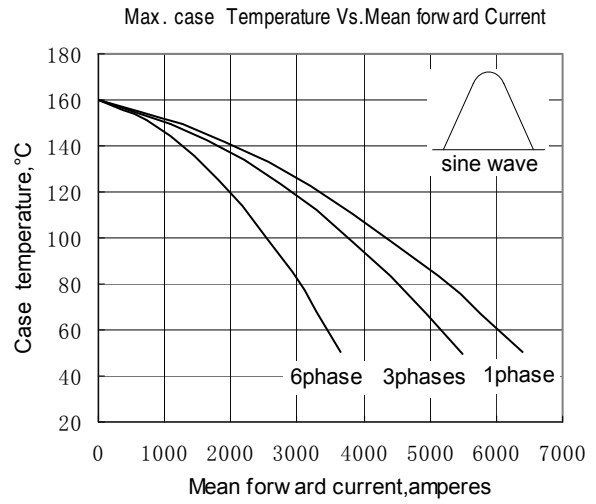


Fig.4

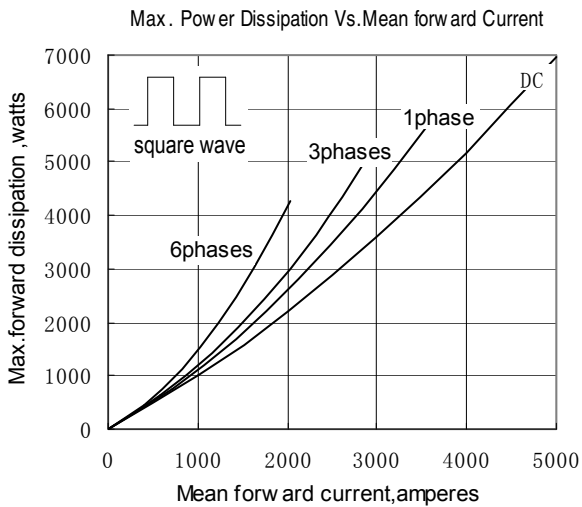


Fig.5

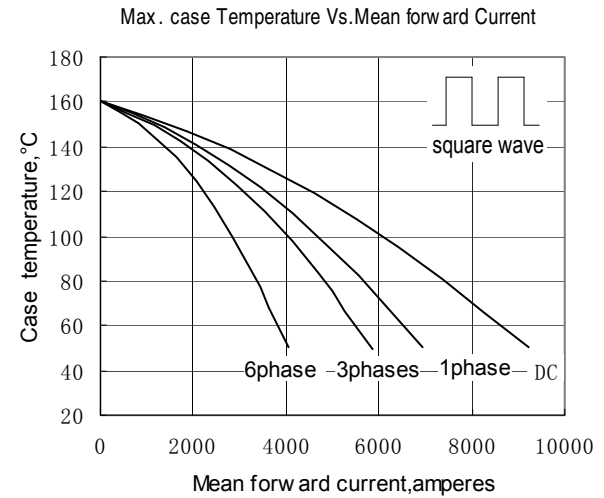


Fig.6

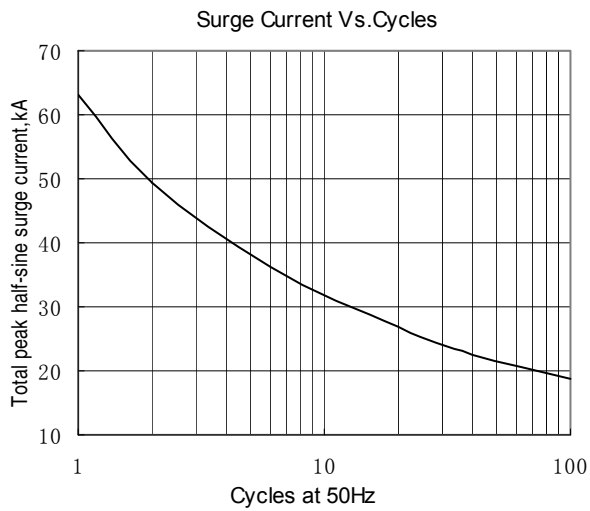


Fig.7

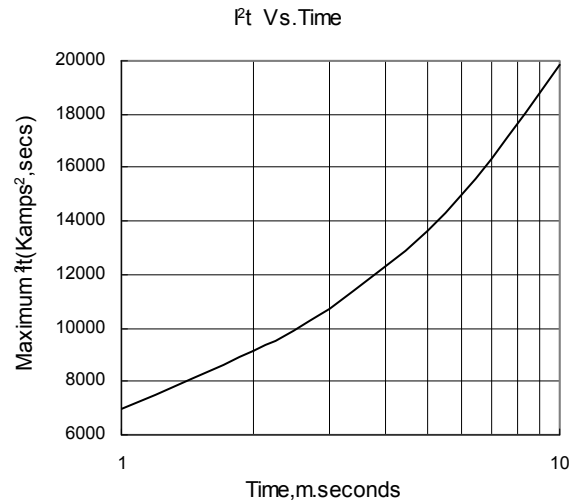


Fig.8

Outline:

