

### 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

$I_{F(AV)}$       **1660 A**  
 $V_{RRM}$         **200~600 V**  
 $I_{FSM}$          **17 kA**  
 $I^2t$             **1445 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,	190			1660	A
						1410	
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	190	200		600	V
I <sub>RRM</sub>	Repetitive peak current	V <sub>RM</sub> = V <sub>RRM</sub>	190			30	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	190			17	kA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				1445	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		190			0.78	V
r <sub>F</sub>	Forward slop resistance					0.25	mΩ
V <sub>FM</sub>	Peak on-state voltage	I <sub>FM</sub> =1200A, F=7.0kN	190			1.10	V
Q <sub>rr</sub>	Recovery charge	I <sub>FM</sub> =1000A, tp=1000μs, di/dt=-20A/μs, V <sub>R</sub> =50V	190		1600		μC
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 7.0kN				0.045	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.010	
F <sub>m</sub>	Mounting force			5.3		10	kN
T <sub>stg</sub>	Stored temperature			-40		190	°C
W <sub>t</sub>	Weight				80		g
Outline	ZT25aT						

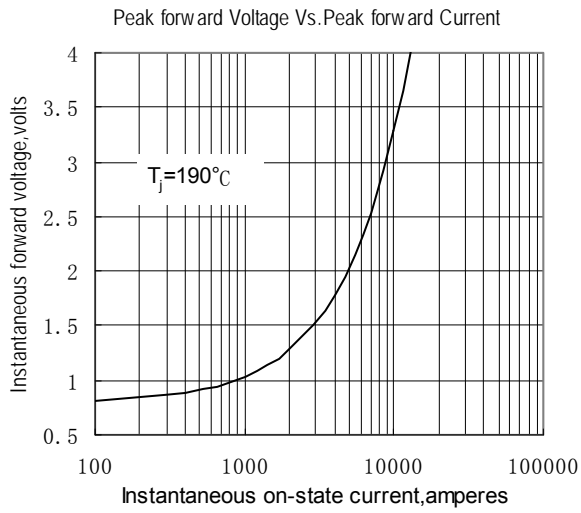


Fig.1

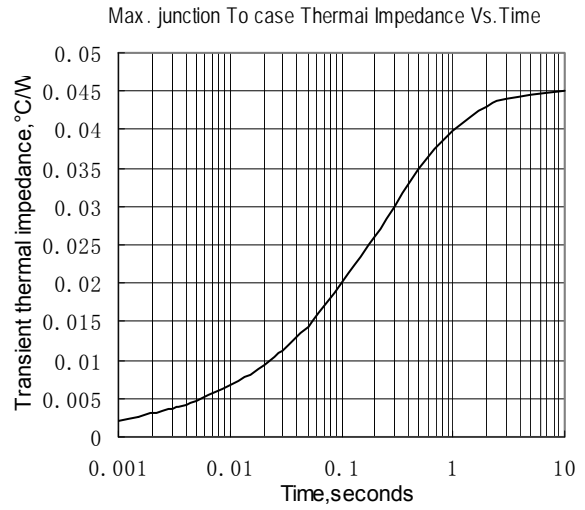


Fig.2

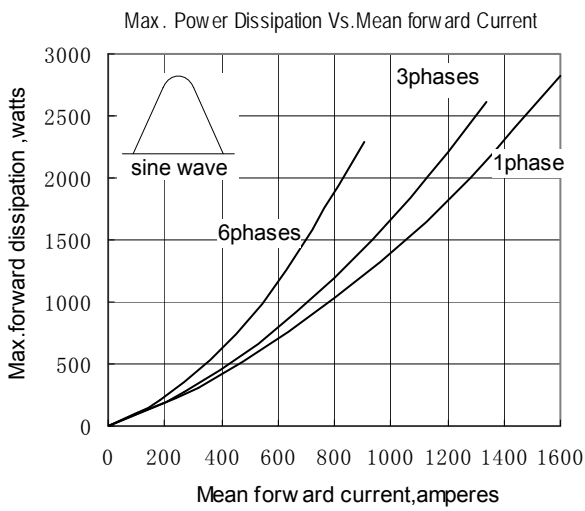


Fig.3

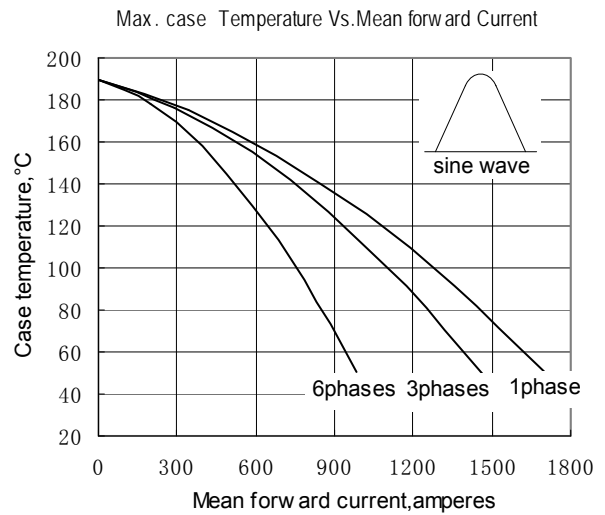


Fig.4

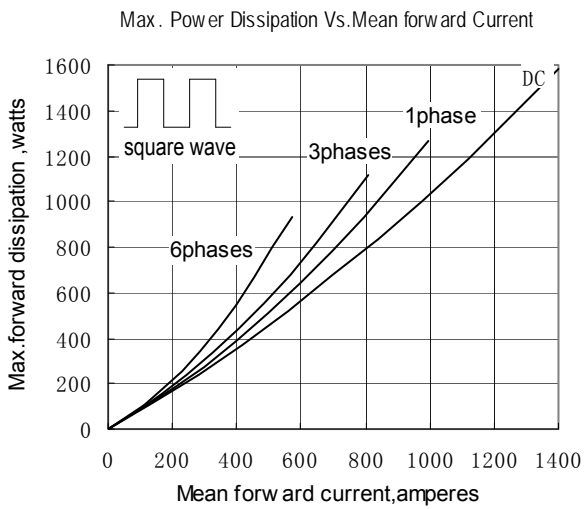


Fig.5

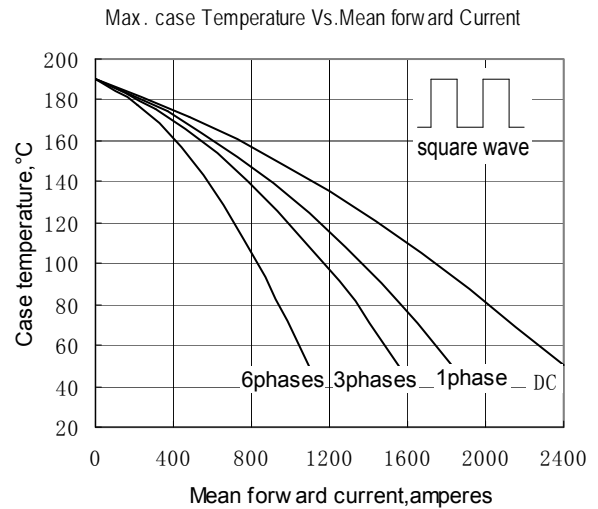


Fig.6

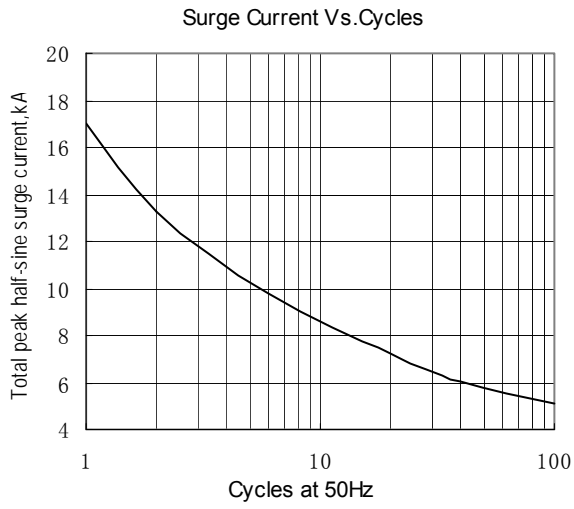


Fig.7

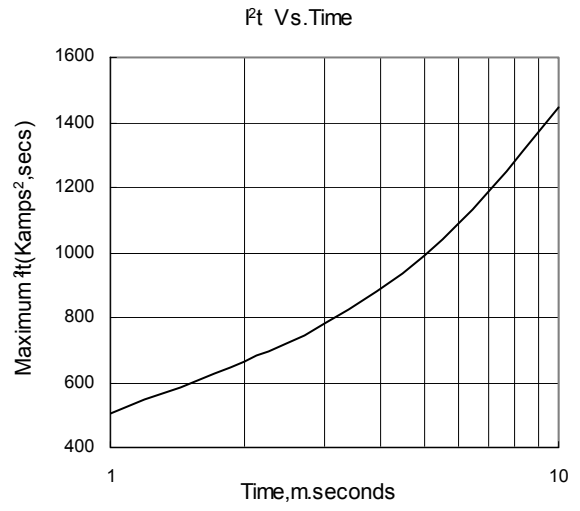


Fig.8

Outline:

