

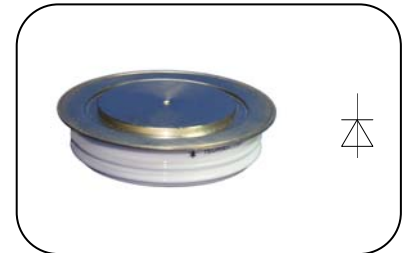
### Features

- 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

$I_{F(AV)}$       **7010 A**  
 $V_{RRM}$         **200~600 V**  
 $I_{FSM}$         **60 kA**  
 $I^2t$             **18000 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,	T <sub>C</sub> =55°C	190			7010	A
			T <sub>C</sub> =85°C				6000	
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			100	mA	
I <sub>FSM</sub>	Surge forward current	10ms half sine wave	190			60	kA	
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				18000	A <sup>2</sup> s*10 <sup>3</sup>	
V <sub>FO</sub>	Threshold voltage		190			0.62	V	
r <sub>F</sub>	Forward slop resistance					0.05	mΩ	
V <sub>FM</sub>	Peak on-state voltage	I <sub>FM</sub> =6000A, F=32kN	190			1.15	V	
Q <sub>rr</sub>	Recovery charge	F <sub>M</sub> =2000A, tp=2000μs, di/dt=-20A/μs, V <sub>R</sub> =50V	190		4500		μC	
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 32kN				0.013	°C /W	
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.0035		
F <sub>m</sub>	Mounting force			27		34	kN	
T <sub>stg</sub>	Stored temperature			-40		190	°C	
W <sub>t</sub>	Weight				850		g	
Outline	ZT60cT65							

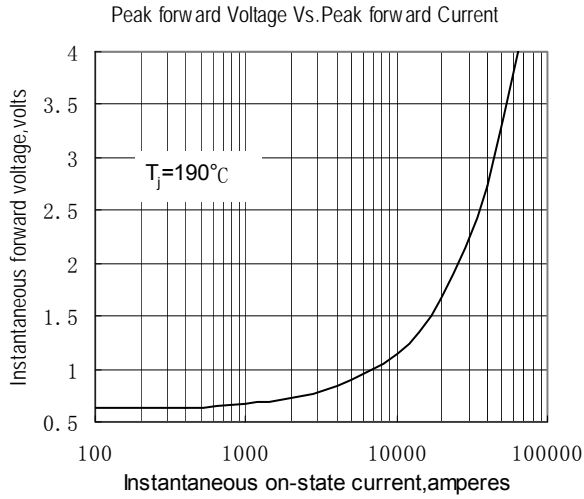


Fig.1

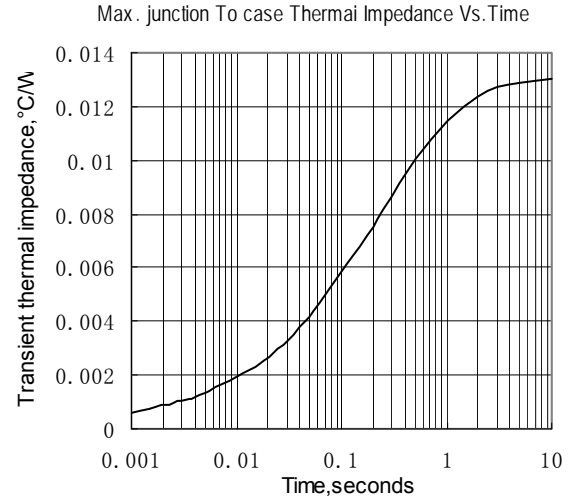


Fig.2

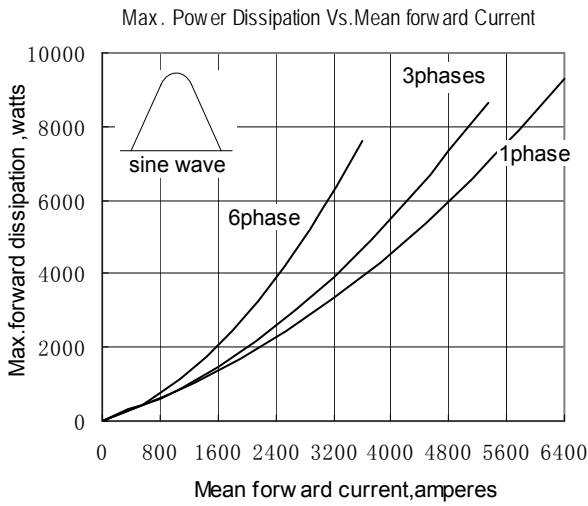


Fig.3

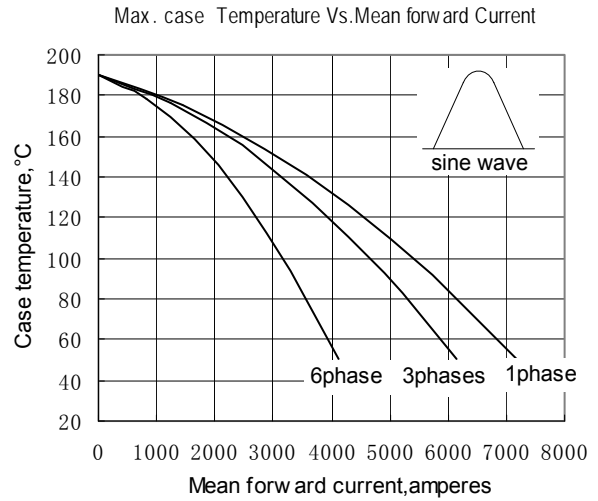


Fig.4

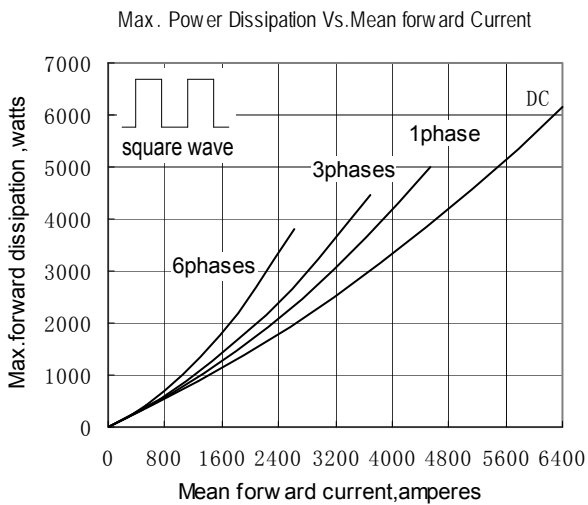


Fig.5

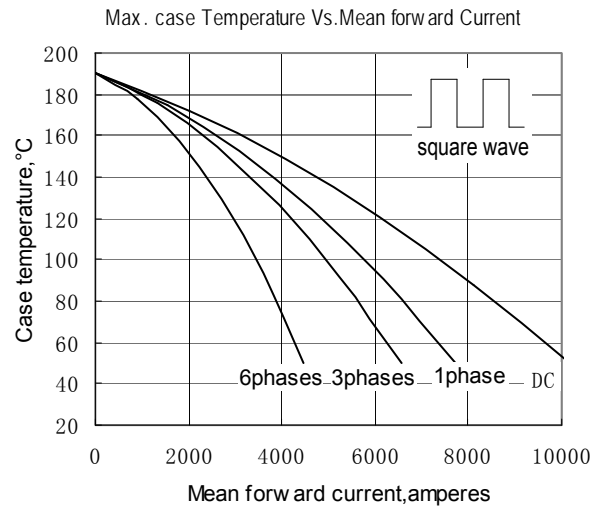


Fig.6

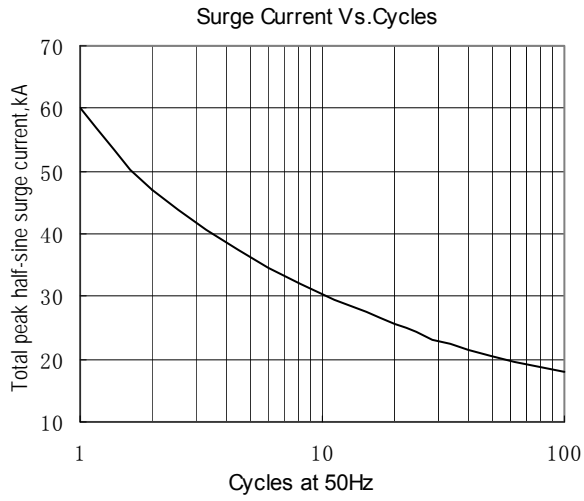


Fig.7

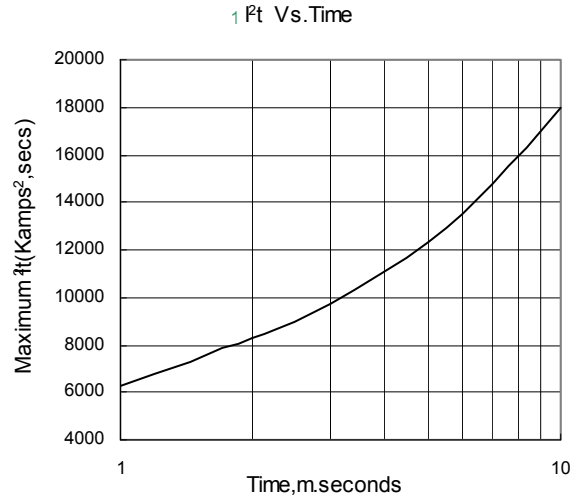


Fig.8

Outline:

