



浙江芯芯电子有限公司
ZHEJIANG XINXIN ELECTIRICAL CO., LTD.

产品规格书

Specification of Products

产品名称：平板型

产品型号：ZP5000A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTIRICAL CO., LTD.

地址：浙江省缙云县壶镇镇浙江丽缙五金科技产业园苍山区块内

电话：13857067071

邮编：321404

E-mail:247145749@qq.com

<http://www.zjxxdz1.com>

拟制	审核	核准
丁国盛	李园利	麻伟阳

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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

 $I_{F(AV)}$

6490A

 V_{RRM}

3100~4200 V

I_{FSM}

80 kA

$$I_t^2$$

32000 $10^3 \text{ A}^2 \text{ S}$



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 =55°C	160			7990	A
			T _C =85°C				6490	
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V		160	3100		4200	V
I _{RRM}	Repetitive peak current	V _{RM} = V _{RRM}		160			250	mA
I _{FSM}	Surge forward current	10ms half sine wave		160			80	kA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}					32000	A ² s*10 ³
V _{FO}	Threshold voltage			160			0.92	V
r _F	Forward slop resistance						0.087	mΩ
V _{FM}	Peak on-state voltage	I _{FM} =6000A, F=90kN		160			1.44	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		160		9000		μC
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 90kN					0.005	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink						0.0015	
F _m	Mounting force				81		108	kN
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					2000		g
Outline	ZT100cT							

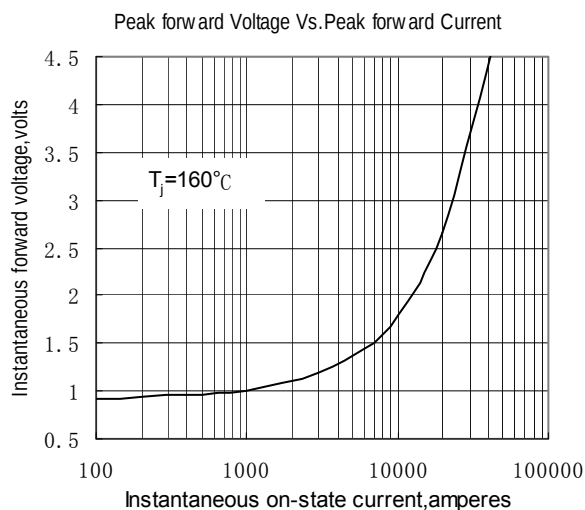


Fig.1

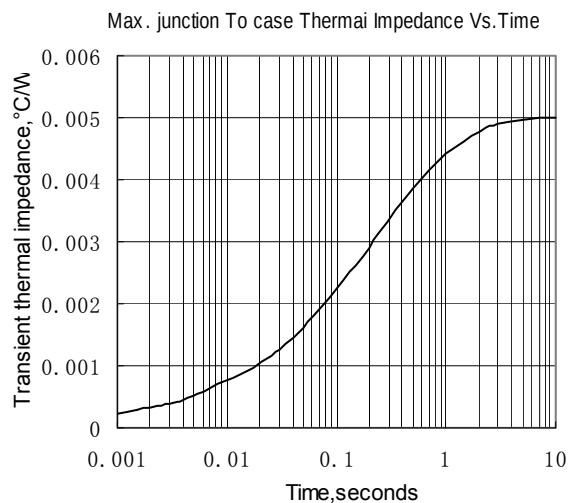


Fig.2

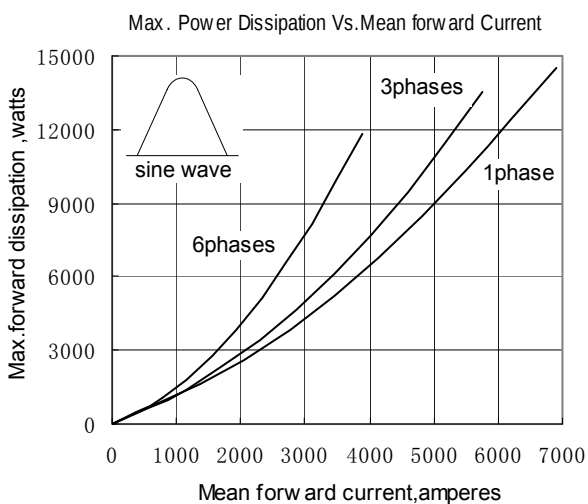


Fig.3

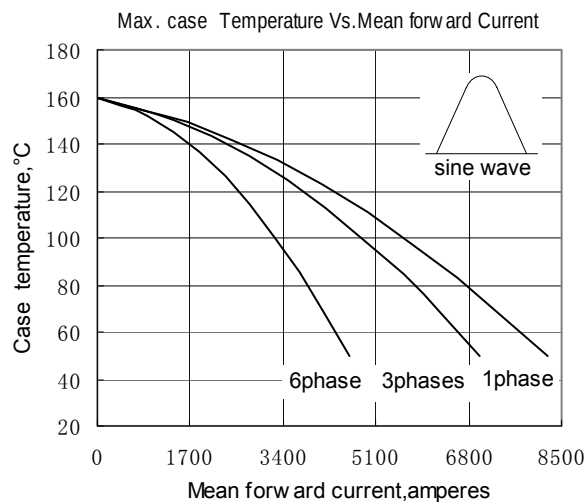


Fig.4

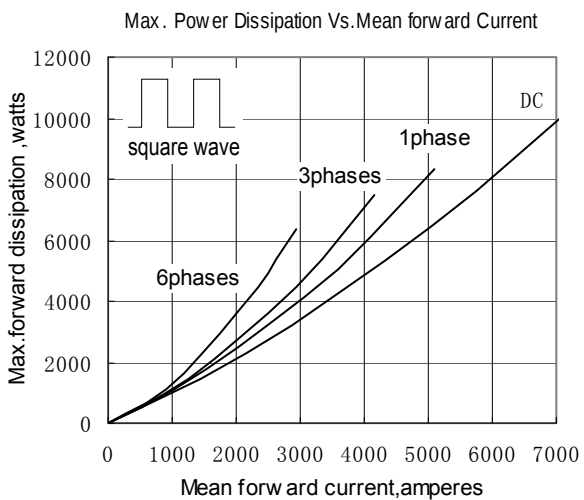


Fig.5

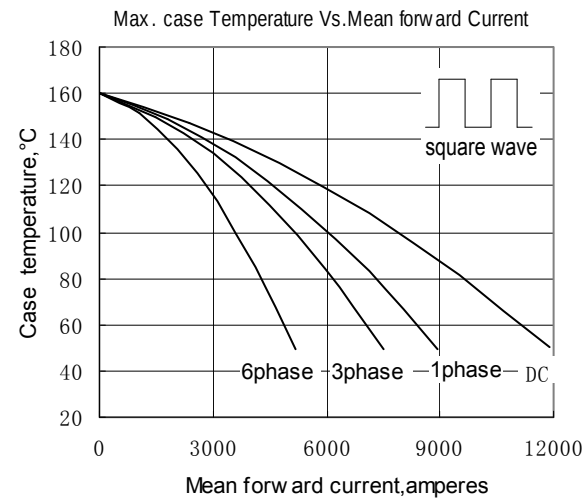


Fig.6

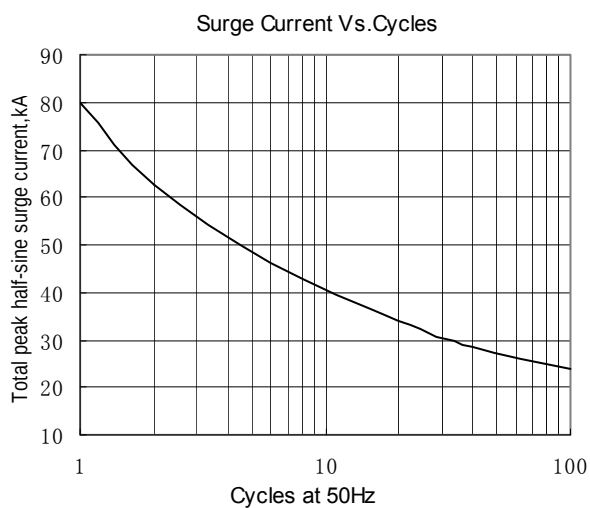


Fig.7

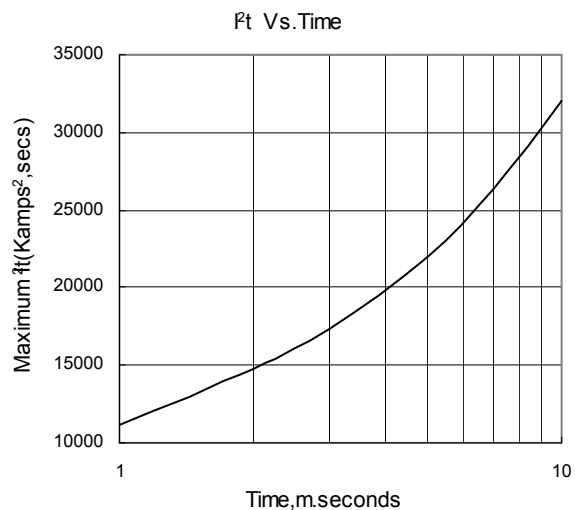


Fig.8

Outline:

