



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

产品规格书

Specification of Products

产品名称：平板型

产品型号：ZP4000A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTRICAL 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

$I_{F(AV)}$

7230A

V_{RRM}

1100~2000 V

I_{FSM}

83 kA

I^2t

34445 $10^3 A^2 s$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	175			8680	A
						7230	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM}=V_{RRM}+100V$	175	1100		2000	V
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	175			200	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	175			83	kA
I^2t	I^2t for fusing coordination					34445	$A^2s \times 10^3$
V_{FO}	Threshold voltage		175			0.80	V
r_F	Forward slop resistance					0.055	$m\Omega$
V_{FM}	Peak on-state voltage	$I_{FM}=5000A$, $F=70kN$	175			1.16	V
Q_{rr}	Recovery charge	$I_{FM}=2000A$, tp=2000 μ s, $di/dt=-20A/\mu$ s, $V_R=50V$	175		6000		μ C
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 70kN				0.007	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.002	
F_m	Mounting force			70		85	kN
T_{stg}	Stored temperature			-40		175	$^{\circ}C$
W_t	Weight				1390		g
Outline		ZT84CT					

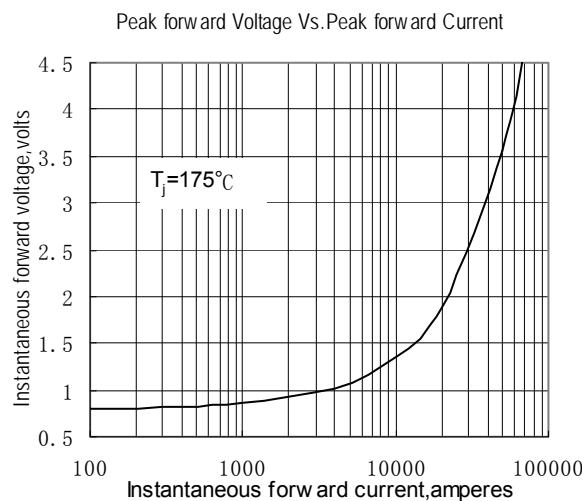


Fig.1

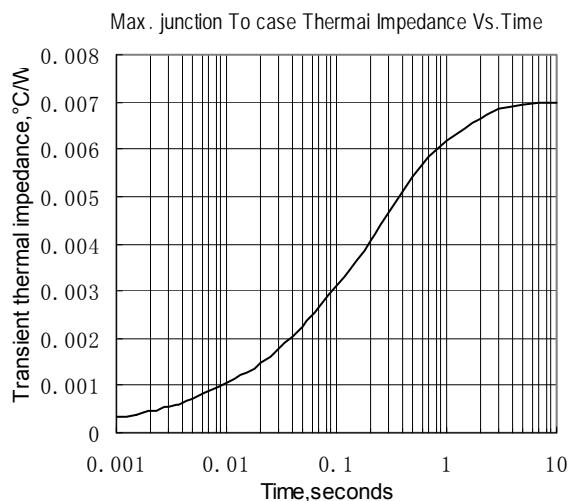


Fig.2

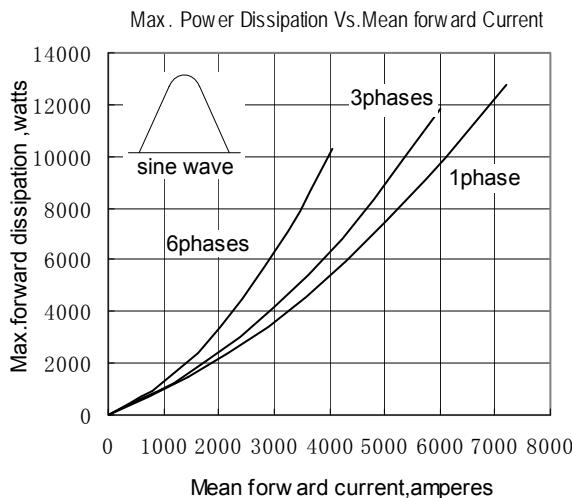


Fig.3

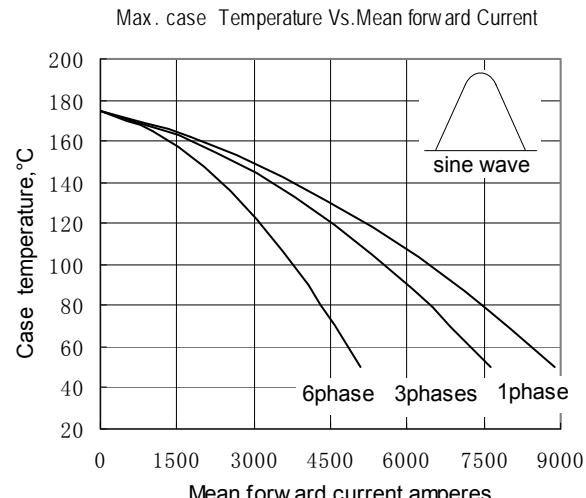


Fig.4

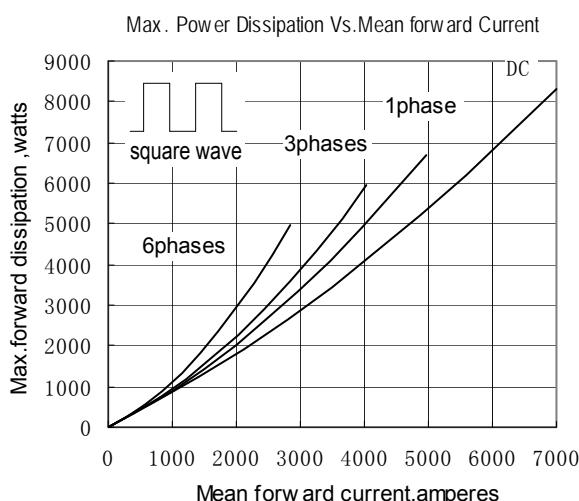


Fig.5

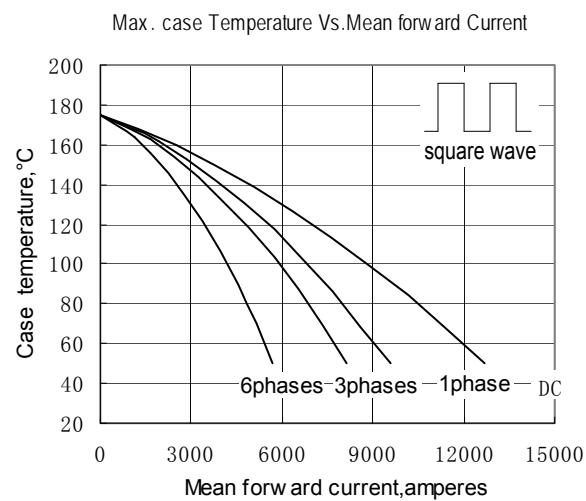


Fig.6

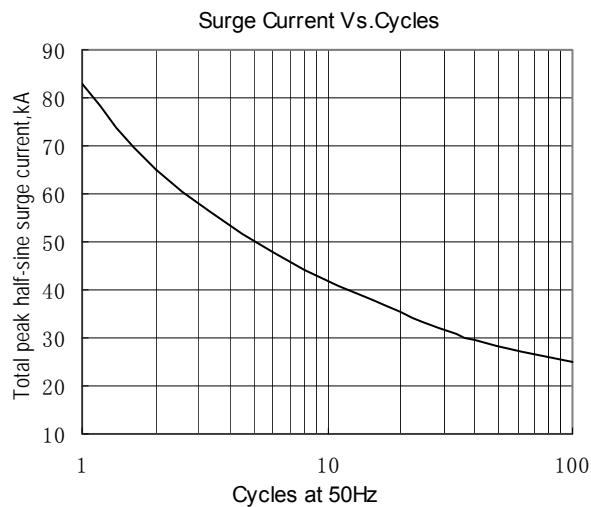


Fig.7

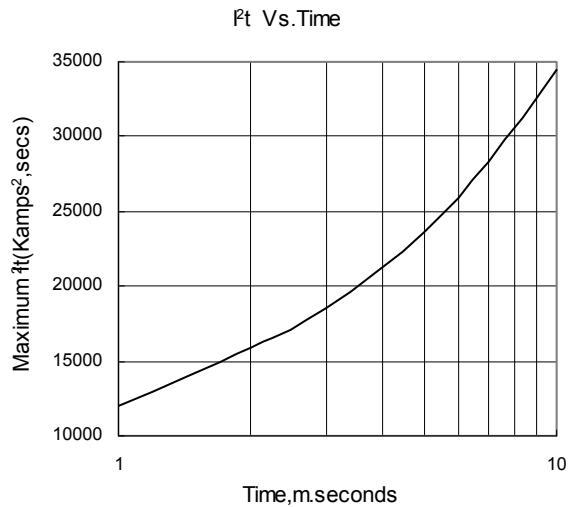


Fig.8

Outline:

