



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：ZP1000A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTRICAL CO., LTD.

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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

$I_{F(AV)}$	<b>2160 A</b>
$V_{RRM}$	<b>200~1000 V</b>
$I_{FSM}$	<b>19 kA</b>
$I^2t$	<b>1805 10<sup>3</sup>A<sup>2</sup>S</b>



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>J</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	190			2550	A
						2160	
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms $V_{RSM} = V_{RRM} + 100V$	190	200		1000	V
$I_{RRM}$	Repetitive peak current	$V_{RM} = V_{RRM}$	190			50	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	190			19	kA
$I^2t$	$I^2T$ for fusing coordination	$V_R = 0.6V_{RRM}$				1805	A <sup>2</sup> s*10 <sup>3</sup>
$V_{FO}$	Threshold voltage		190			0.86	V
$r_F$	Forward slop resistance					0.165	mΩ
$V_{FM}$	Peak on-state voltage	$I_{FM} = 3000A, F = 18kN$	190			1.36	V
$Q_{rr}$	Recovery charge	$I_{FM} = 2000A, tp = 2000\mu s, di/dt = -20A/\mu s, V_R = 50V$	190		1900		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 18.0kN				0.028	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0075	
$F_m$	Mounting force			10		20	kN
$T_{stg}$	Stored temperature			-40		190	°C
$W_t$	Weight				320		g
Outline	ZT39cT40						

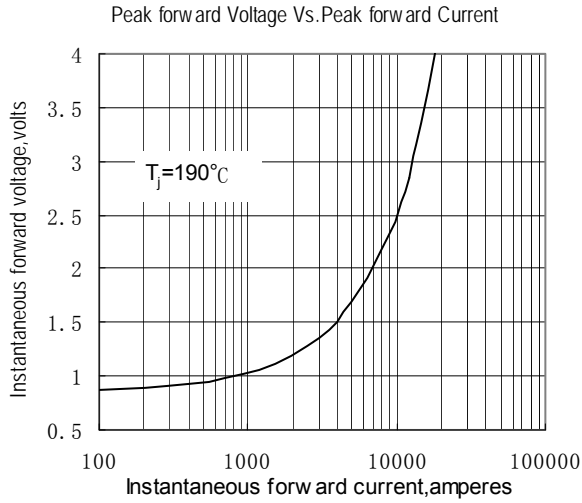


Fig.1

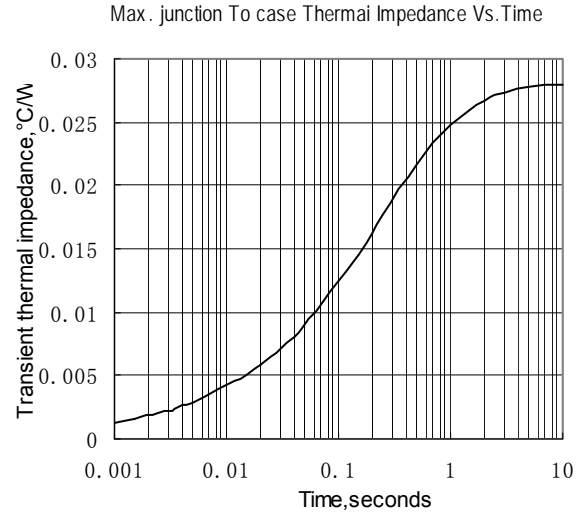


Fig.2

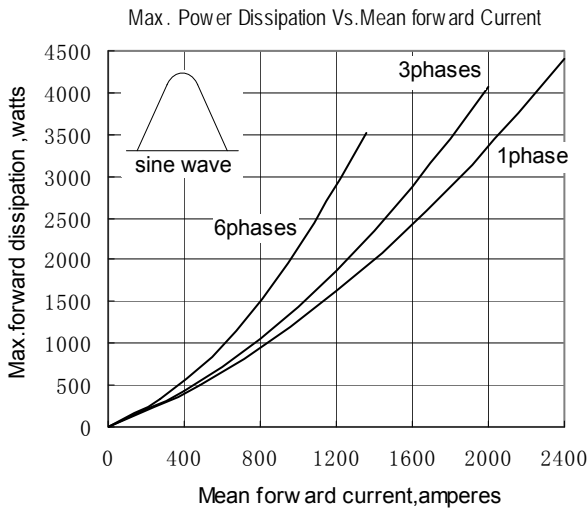


Fig.3

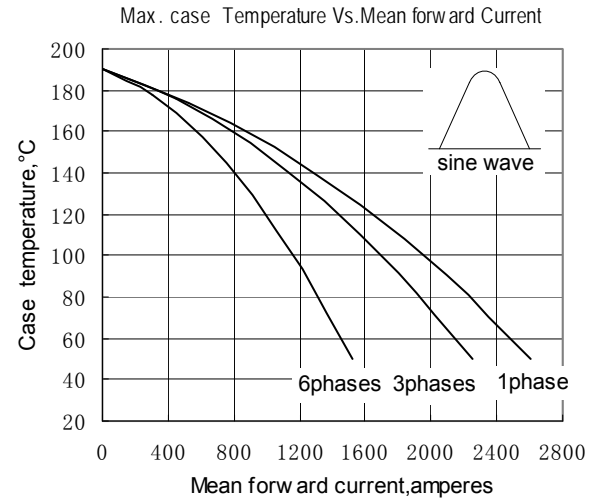


Fig.4

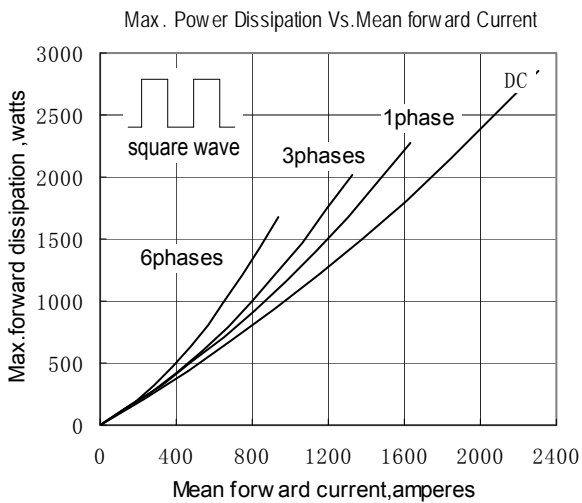


Fig.5

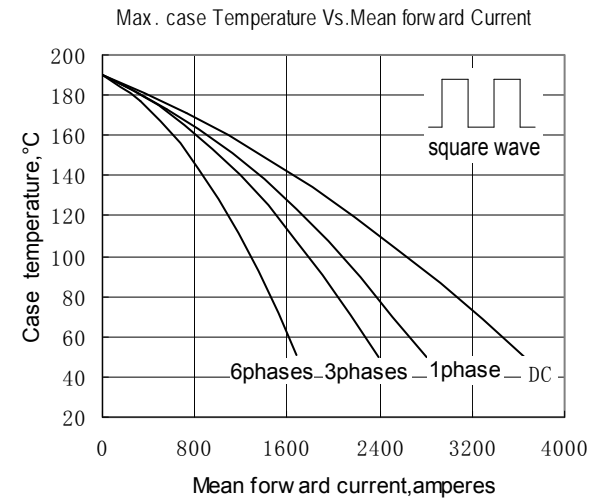


Fig.6

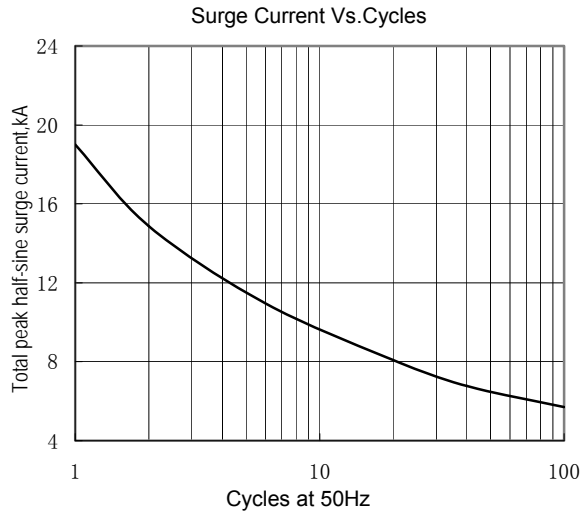


Fig.7

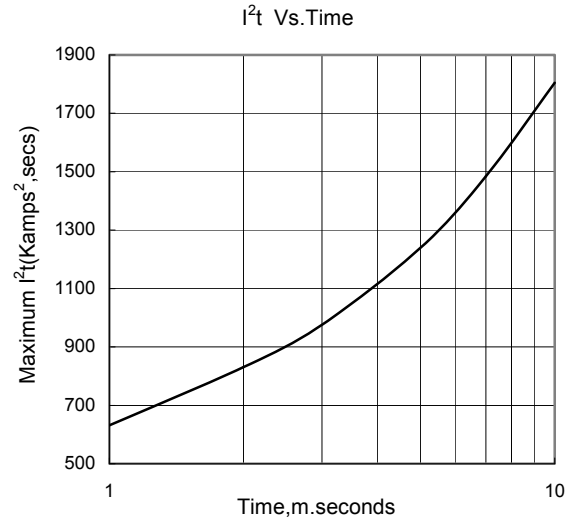


Fig.8

**Outline:**

