



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：ZP3500A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTRICAL CO., LTD.

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|-----|-----|-----|
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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

| | |
|-------------|-------------------|
| $I_{F(AV)}$ | 5220A |
| V_{RRM} | 1100~2000 V |
| I_{FSM} | 60 kA |
| I^2t | 18000 $10^3 A^2S$ |



| 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 | | | 6290 | A |
| | | | | | | 5220 | |
| 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 | | | 60 | kA |
| I^2t | I^2T for fusing coordination | | | | | 18000 | $A^2s \times 10^3$ |
| V_{FO} | Threshold voltage | | 175 | | | 0.85 | V |
| r_F | Forward slop resistance | | | | | 0.069 | $m\Omega$ |
| V_{FM} | Peak on-state voltage | $I_{FM}=6800A, F=40kN$ | 175 | | | 1.19 | V |
| Q_{rr} | Recovery charge | $I_{FM}=2000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$ | 175 | | 5500 | | μC |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | At 180° sine double side cooled Clamping force 40kN | | | | 0.010 | $^\circ C /W$ |
| | Thermal resistance case to heat sink | | | | | 0.003 | |
| F_m | Mounting force | | | 35 | | 47 | kN |
| T_{stg} | Stored temperature | | | -40 | | 175 | $^\circ C$ |
| W_t | Weight | | | | 1100 | | g |
| Outline | | ZT73cT | | | | | |

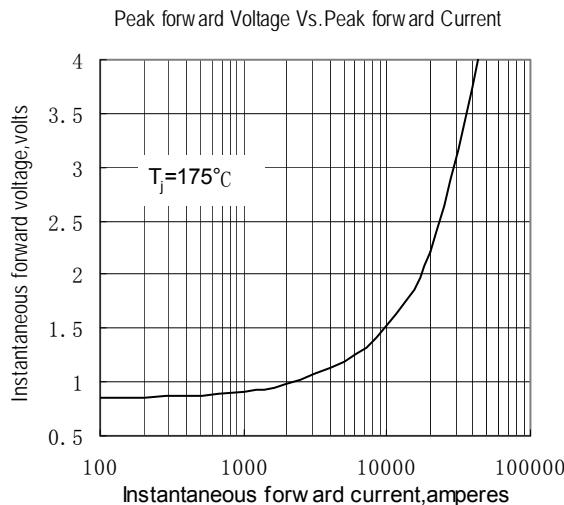


Fig.1

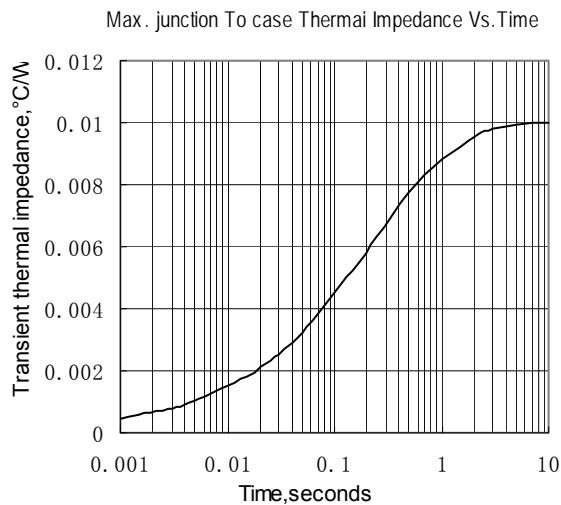


Fig.2

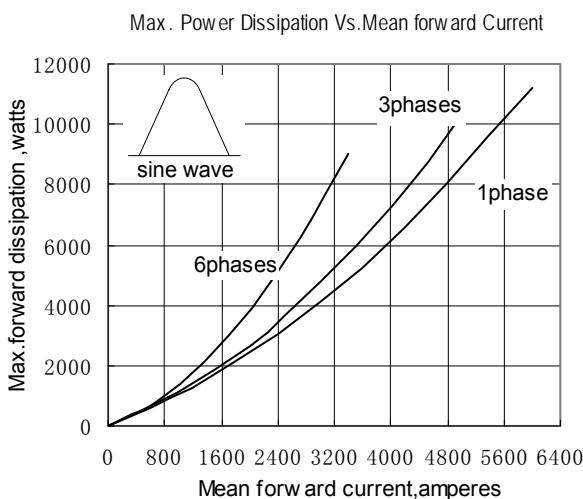


Fig.3

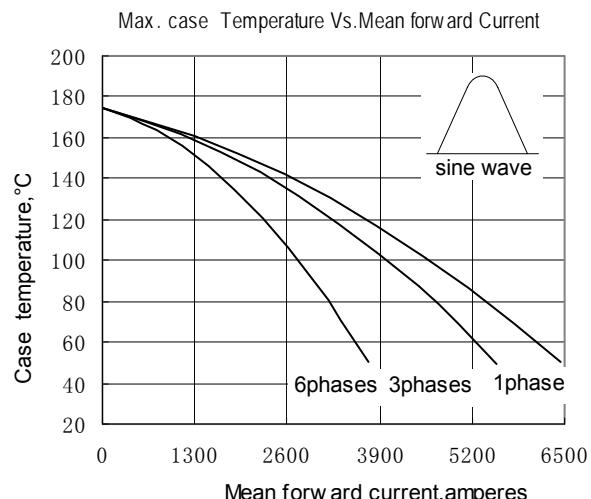


Fig.4

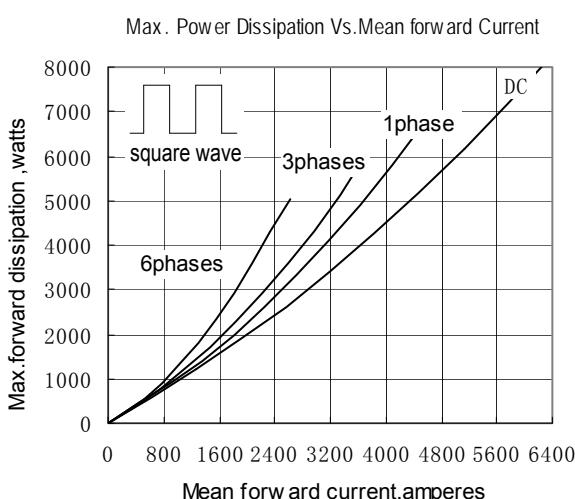


Fig.5

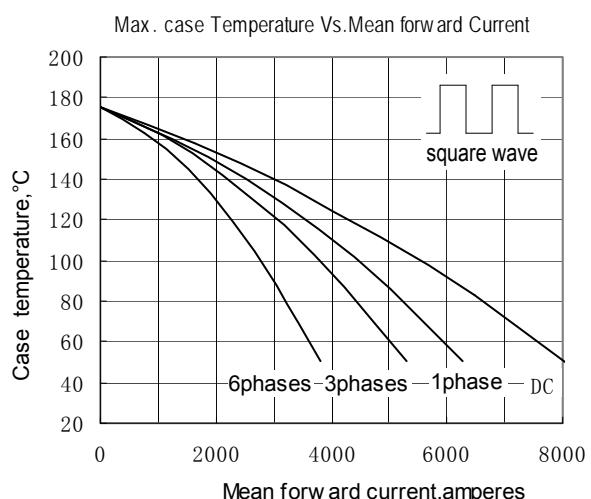


Fig.6

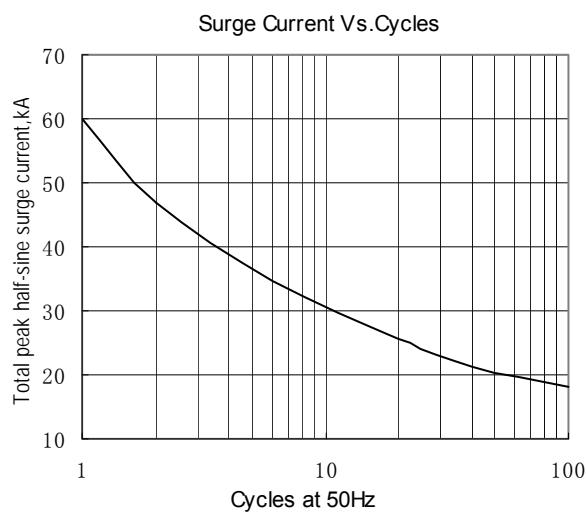


Fig.7

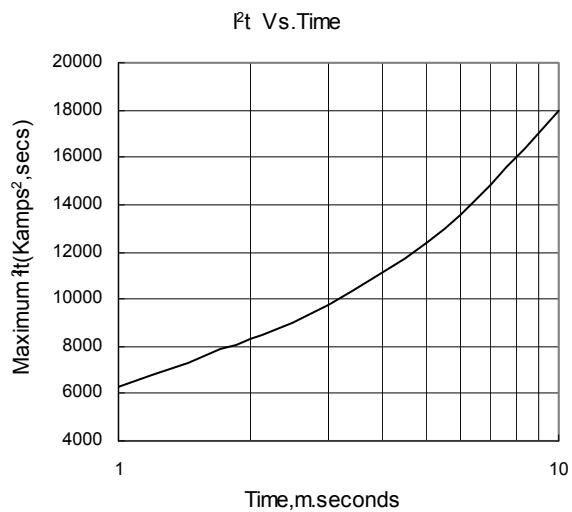


Fig.8

Outline:

