



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：单相整流桥模块

产品型号：MDQ500A

浙江芯芯电子有限公司

ZHEJIANG XINXIN ELECTIRICAL CO., LTD.

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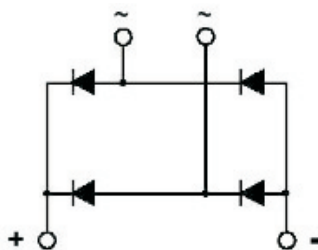
<http://www.zjxxdz1.com>

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|-----|-----|-----|
| 拟制  | 审核  | 核准  |
| 丁国盛 | 李园利 | 麻伟阳 |

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| SYMBOL                      | CHARACTERISTIC                           | TEST CONDITIONS                                                                         | T <sub>j</sub> (°C) | VALUE |      |       | UNIT                             |
|-----------------------------|------------------------------------------|-----------------------------------------------------------------------------------------|---------------------|-------|------|-------|----------------------------------|
|                             |                                          |                                                                                         |                     | Min   | Type | Max   |                                  |
| I <sub>O</sub>              | DC output current                        | Single-phase full wave rectifying circuit, T <sub>C</sub> =100 °C                       | 150                 |       |      | 500   | A                                |
| V <sub>RRM</sub>            | Repetitive peak reverse voltage          | V <sub>RRM</sub> tp=10ms<br>V <sub>RSM</sub> = V <sub>DRM</sub> &V <sub>RRM</sub> +200V | 150                 | 600   |      | 2200  | V                                |
| I <sub>RRM</sub>            | Repetitive peak current                  | at V <sub>RRM</sub>                                                                     | 150                 |       |      | 10    | mA                               |
| I <sub>FSM</sub>            | Surge forward current                    | 10ms half sinewave                                                                      | 150                 |       |      | 1.50  | KA                               |
| I <sup>2</sup> <sub>t</sub> | I <sup>2</sup> T for fusing coordination | V <sub>R</sub> =0.6V <sub>RRM</sub>                                                     |                     |       |      | 11.4  | A <sup>2</sup> s*10 <sup>3</sup> |
| V <sub>FO</sub>             | Threshold voltage                        |                                                                                         | 150                 |       |      | 0.80  | V                                |
| r <sub>F</sub>              | Forward slop resistance                  |                                                                                         |                     |       |      | 4.5   | mΩ                               |
| V <sub>FM</sub>             | Peak forward voltage                     | I <sub>M</sub> =500A                                                                    | 25                  |       |      | 1.475 | V                                |
| R <sub>th(j-c)</sub>        | Thermal resistance Junction to heatsink  | Single side cooled                                                                      |                     |       |      | 0.240 | °C /W                            |
| V <sub>iso</sub>            | Isolation voltage                        | 50Hz, RM. S, t=1min, i <sub>so</sub> : 1mA (max)                                        |                     | 2500  |      |       | V                                |
| F <sub>m</sub>              | Terminal connection torque(M5)           |                                                                                         |                     |       | 2.0  |       | N. m                             |
|                             | Mounting torque M6)                      |                                                                                         |                     |       | 3.0  |       | N. m                             |
| T <sub>stg</sub>            | Stored temperature                       |                                                                                         |                     | -40   |      | 125   | °C                               |
| W <sub>t</sub>              | Weight                                   |                                                                                         |                     |       | 154  |       | g                                |
| Outline                     |                                          |                                                                                         |                     |       |      |       |                                  |

### OUTLINE DRAWING & CIRCUIT DIAGRAM



## Rating and Characteristic

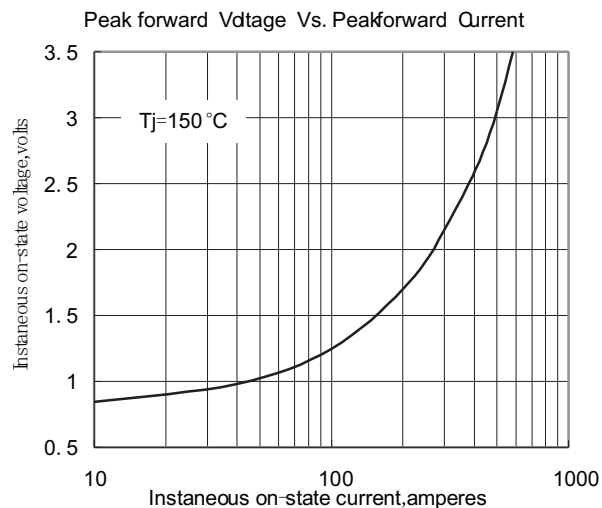


Fig. 1

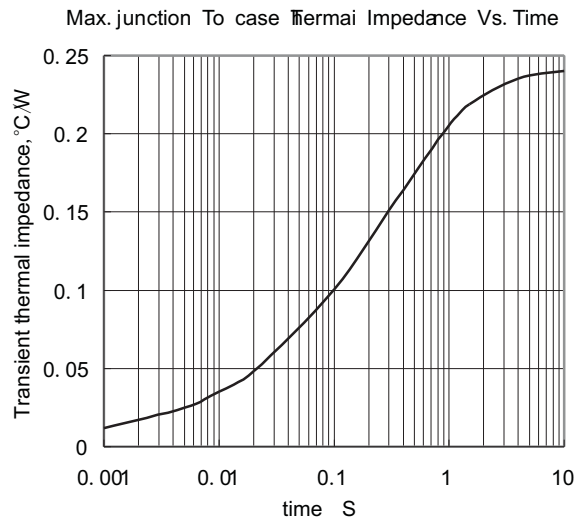


Fig. 2

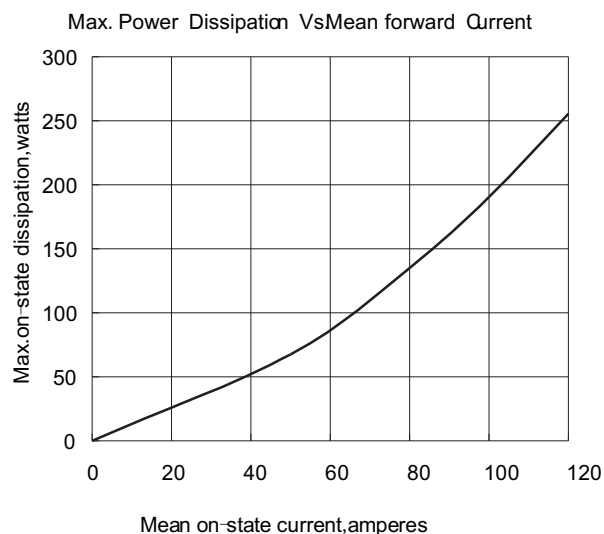


Fig. 3

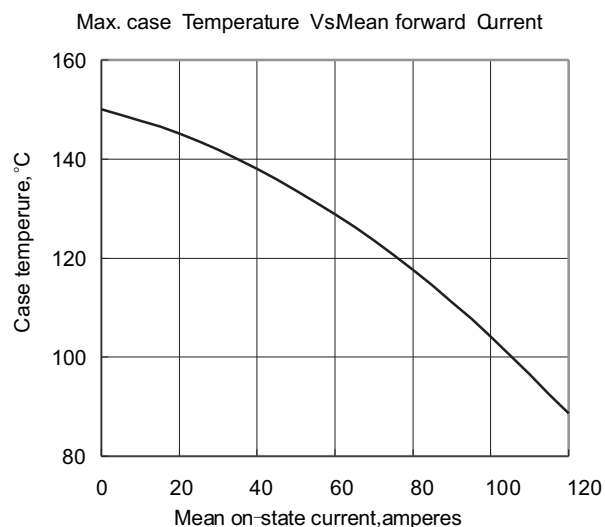


Fig. 4

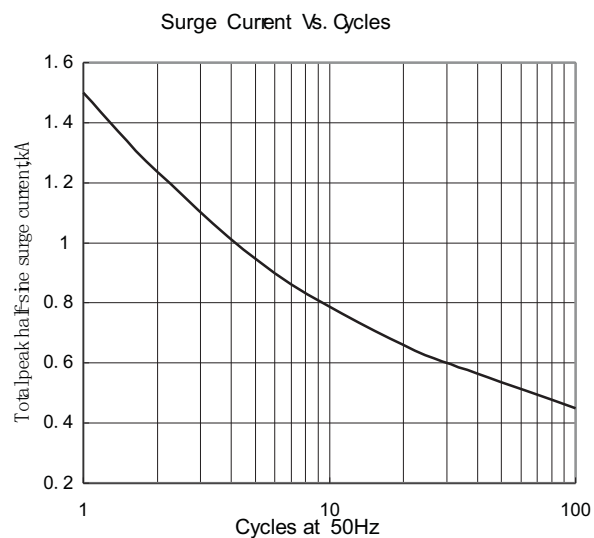


Fig. 5

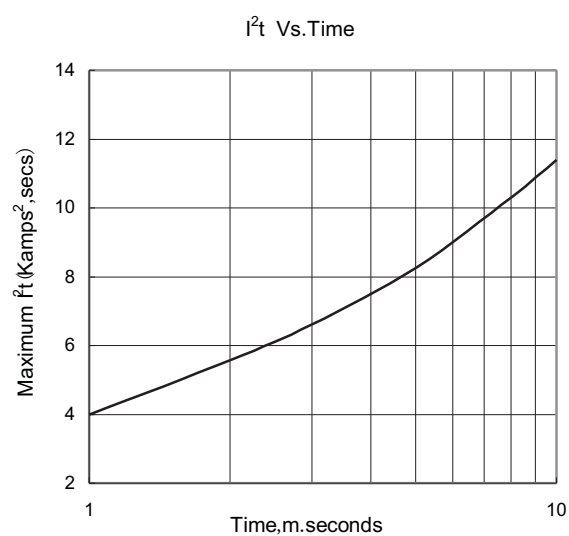


Fig. 6

## Outside Dimension

