



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：整流单管模块

产品型号：MD1000A

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>

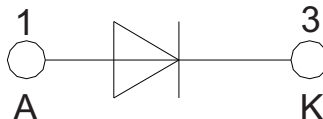
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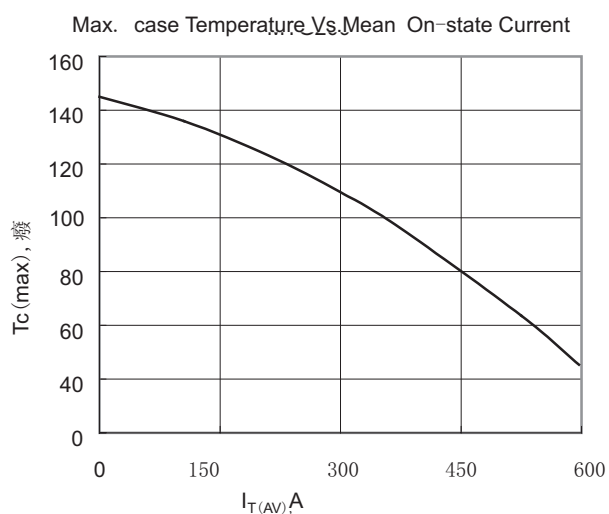
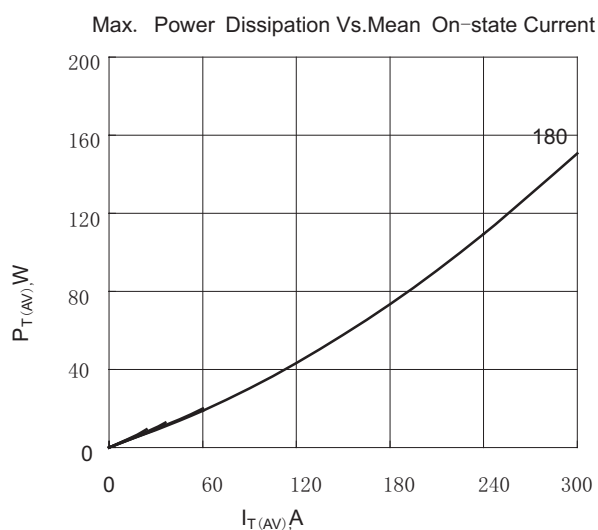
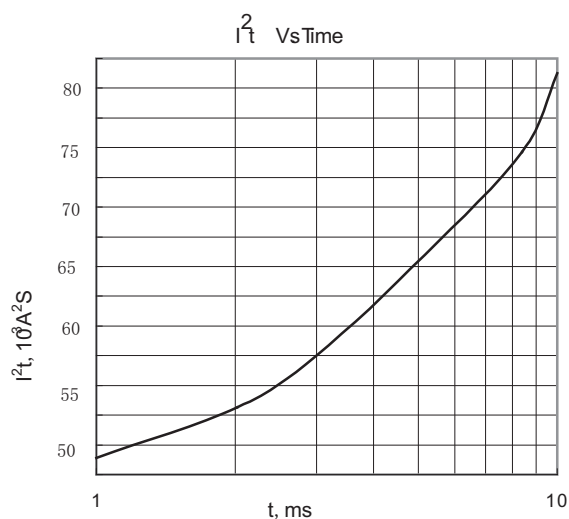
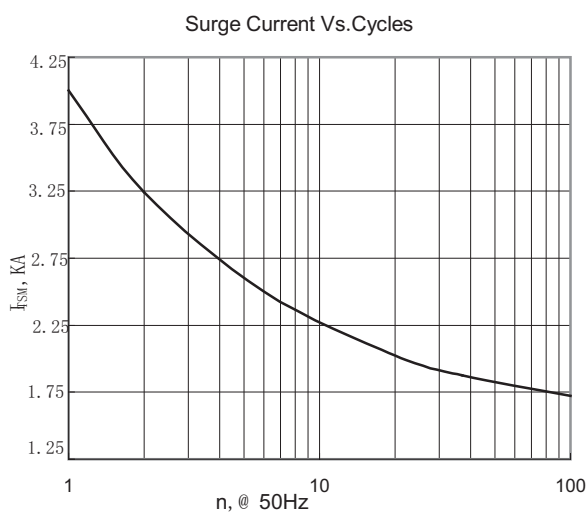
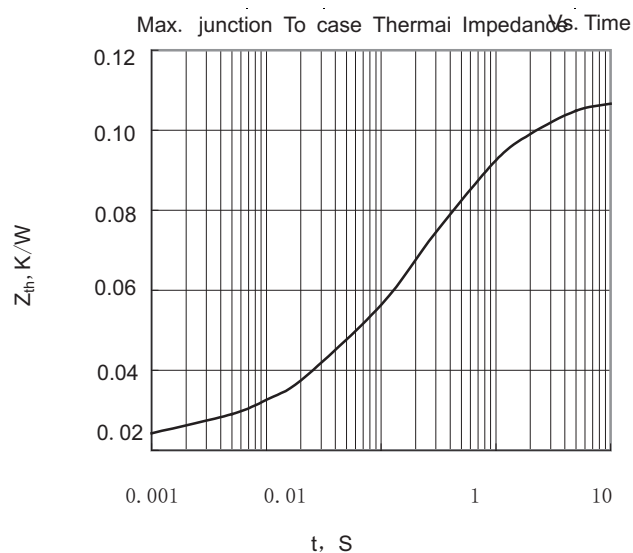
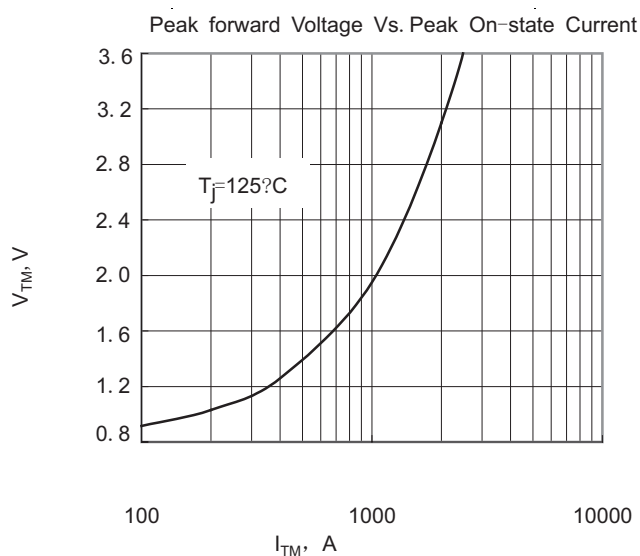
| SYMBOL                      | CHARACTERISTIC                             | TEST CONDITIONS                                                                         | T <sub>j</sub> (°C) | VALUE |      |       | UNIT                             |
|-----------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|---------------------|-------|------|-------|----------------------------------|
|                             |                                            |                                                                                         |                     | Min   | Type | Max   |                                  |
| I <sub>F(AV)</sub>          | Mean forward current                       | 180° half sinewave 50Hz<br>Single side cooled, $\bar{T}=100^{\circ}\text{C}$            | 150                 |       |      | 1000  | A                                |
| I <sub>F(RMS)</sub>         | RMS forward current                        | Single side cooled, $\bar{T}=100^{\circ}\text{C}$                                       | 150                 |       |      | 1570  | 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                 |       | 3000 |       | V                                |
| I <sub>RRM</sub>            | Repetitive peak current                    | at V <sub>RRM</sub>                                                                     | 150                 |       |      | 50    | mA                               |
| I <sub>FSM</sub>            | Surge forward current                      | 10ms half sinewave                                                                      | 150                 |       |      | 21.0  | KA                               |
| I <sup>2</sup> <sub>t</sub> | <sup>2</sup> T for fusing coordination     | V <sub>R</sub> =0.6V <sub>RRM</sub>                                                     |                     |       |      | 2040  | A <sup>2</sup> s*10 <sup>3</sup> |
| V <sub>FO</sub>             | Threshold voltage                          |                                                                                         | 150                 |       |      | 0.75  | V                                |
| r <sub>F</sub>              | Forward slop resistance                    |                                                                                         |                     |       |      | 0.31  | mΩ                               |
| V <sub>FM</sub>             | Peak forward voltage                       | I <sub>M</sub> =3000A                                                                   | 25                  |       |      | 1.10  | V                                |
| R <sub>th(j-c)</sub>        | Thermal resistance<br>Junction to heatsink | At 180° sine Single side cooled                                                         |                     |       |      | 0.130 | °C /W                            |
| V <sub>iso</sub>            | Isolation voltage                          | 50Hz, RM. S, t=1min, i <sub>iso</sub> : 1mA (max)                                       |                     | 3500  |      |       | V                                |
| F <sub>m</sub>              | Terminal connection torque (M12)           |                                                                                         |                     |       | 14.0 |       | N.m                              |
|                             | Mounting torque (M8)                       |                                                                                         |                     |       | 12.0 |       | N.m                              |
| T <sub>stg</sub>            | Stored temperature                         |                                                                                         |                     | -40   |      | 125   | °C                               |
| W <sub>t</sub>              | Weight                                     |                                                                                         |                     |       | 3400 |       | g                                |
| Outline                     |                                            |                                                                                         |                     |       |      |       |                                  |

### OUTLINE DRAWING & CIRCUIT DIAGRAM

MD



### Rating and Characteristic



## Outside Dimension

