



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：MDQ60A

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

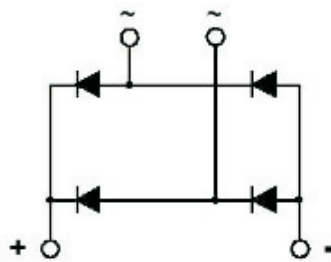
<http://www.zjxxdz1.com>

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

版本号：04 更新日期：2022.6.28

| 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                 |       |      | 60    | 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                 |       |      | 8     | mA                               |
| I <sub>FSM</sub>     | Surge forward current                      | 10ms half sinewave                                                                      | 150                 |       |      | 1.00  | KA                               |
| I <sup>2</sup> t     | I <sup>2</sup> T for fusing coordination   | V <sub>R</sub> =0.6V <sub>RRM</sub>                                                     |                     |       |      | 5.1   | 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                    |                                                                                         |                     |       |      | 7.0   | mΩ                               |
| V <sub>FM</sub>      | Peak forward voltage                       | I <sub>FM</sub> =60A                                                                    | 25                  |       |      | 1.1   | V                                |
| R <sub>th(j-c)</sub> | Thermal resistance<br>Junction to heatsink | Single side cooled                                                                      |                     |       |      | 0.320 | °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

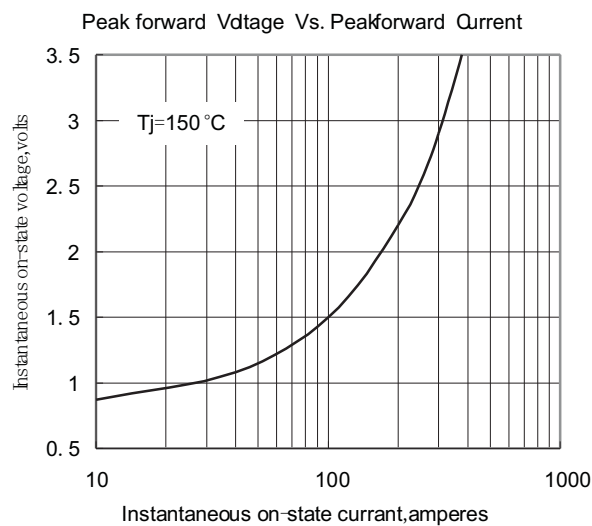


Fig. 1

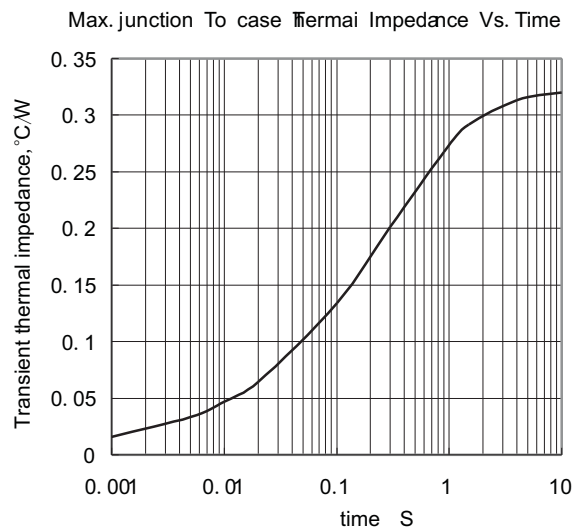


Fig. 2

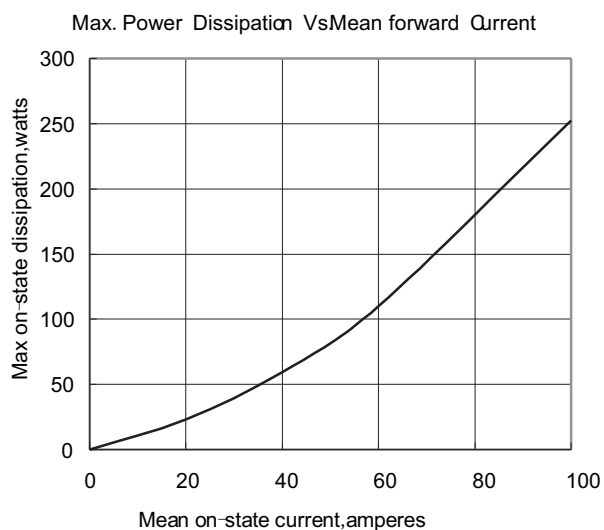


Fig. 3

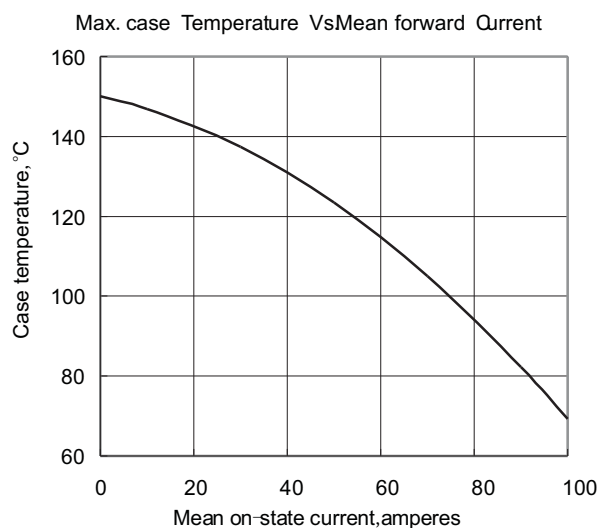


Fig. 4

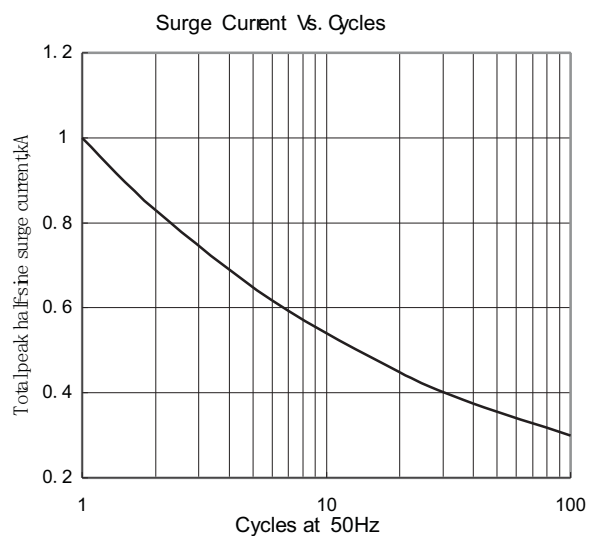


Fig. 5

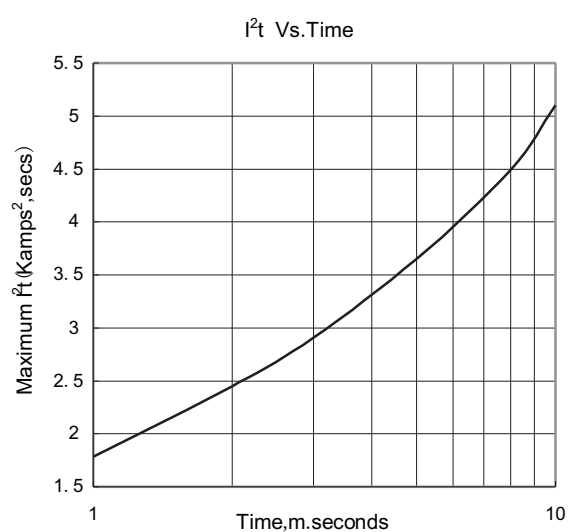


Fig. 6

