

## 产品规格书

### Specification of products

产品名称: 整流管模块

产品型号: MD600A-Y13

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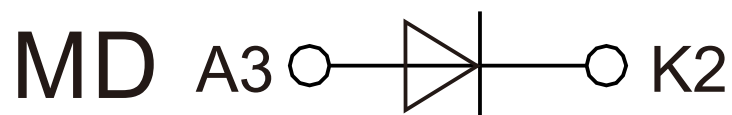
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|     |     |    |
|-----|-----|----|
| 拟制  | 审核  | 核准 |
| 林益龙 | 曹剑龙 | 宗瑞 |

| SYMBOL               | CHARACTERISTIC                             | TEST CONDITIONS   | T <sub>j</sub> (°C) | VALUE |      |       | UNIT                             |
|----------------------|--|---|---------------------|-------|------|-------|----------------------------------|
|                      |  |   |                     | Min   | Type | Max   |                                  |
| I <sub>F(AV)</sub>   | Mean for ward current                      | 180° half sine wave 50Hz<br>Single side cooled,T <sub>C</sub> =100°C                    | 150                 |       |      | 600   | A                                |
| I <sub>F(RMS)</sub>  | RMS for ward current                       | Single side cooled,T <sub>C</sub> =100°C  | 150                 |       |      | 942   | 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                 |       |      | 40    | mA                               |
| I <sub>FSM</sub>     | Surge for ward current                     | 10ms half sine wave   | 150                 |       |      | 21.0  | KA                               |
| I <sup>2</sup> t     | I <sup>2</sup> T for fusing coordination   | V <sub>R</sub> =0.6V <sub>RRM</sub>   |                     |       |      | 2250  | 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                    |   |                     |       |      | 0.32  | mΩ                               |
| V <sub>FM</sub>      | Peak forward voltage                       | I <sub>FM</sub> =1800A  | 25                  |       |      | 1.20  | V                                |
| R <sub>th(j-c)</sub> | Thermal resistance<br>Junction to heatsink | At 180° sine' Single side cooled  |                     |       |      | 0.090 | °C /W                            |
| V <sub>iso</sub>     | Isolation voltage                          | 50Hz, RM. S, t=1min, I <sub>iso</sub> : 1mA (max)                                       |                     | 3000  |      |       | V                                |
| F <sub>m</sub>       | Terminal connection torque( M10)           |   |                     |       | 9.0  |       | N.m                              |
|                      | Mounting torque( M6)                       |   |                     |       | 5.0  |       | N.m                              |
| T <sub>stg</sub>     | Stored temperature                         |   |                     | -40   |      | 125   | °C                               |
| W <sub>t</sub>       | Weight                                     |   |                     |       |      |       | g                                |
| Outline              |  |   |                     |       |      |       |                                  |

### OUTLINE DRAWING & CIRCUIT DIAGRAM



### Rating and Characteristic

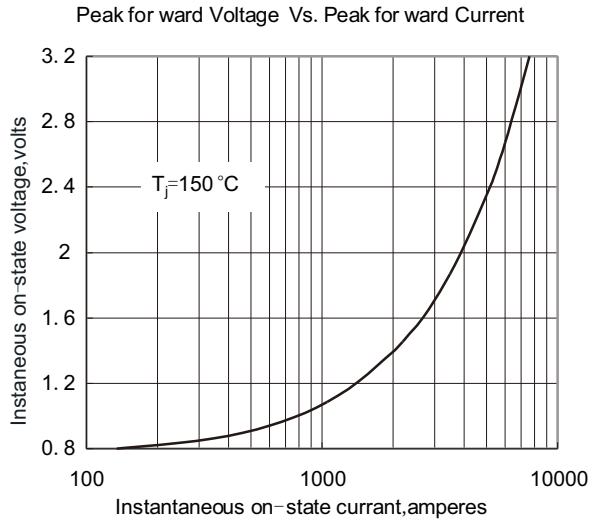


Fig. 1

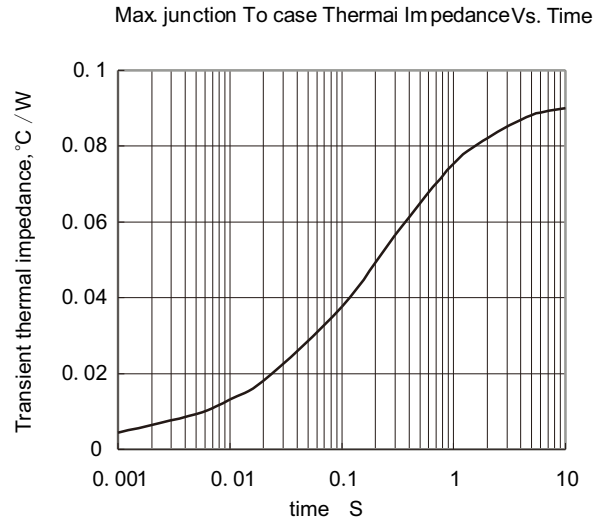


Fig. 2

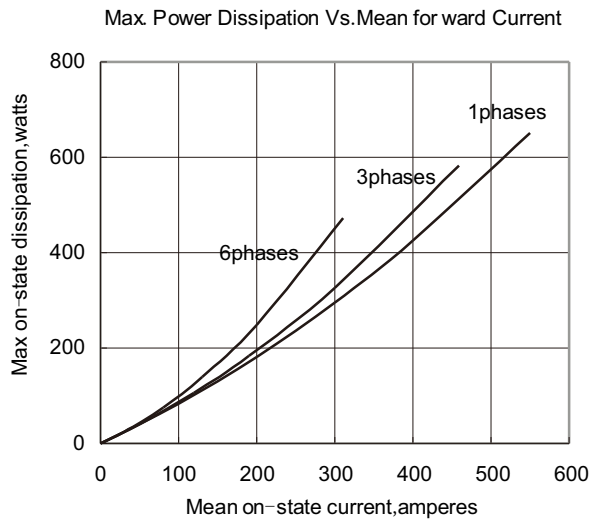


Fig. 3

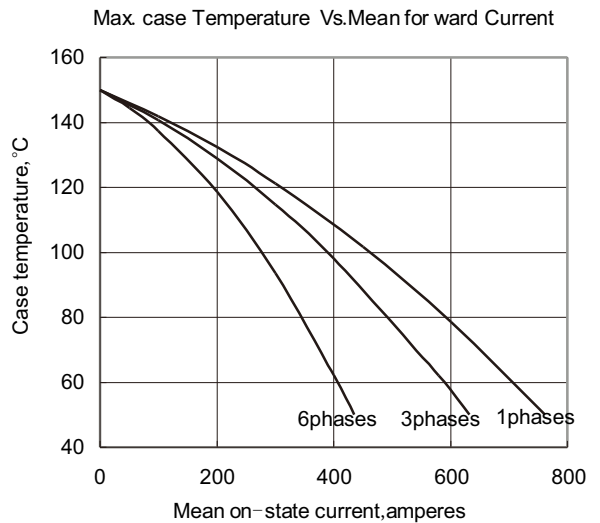


Fig. 4

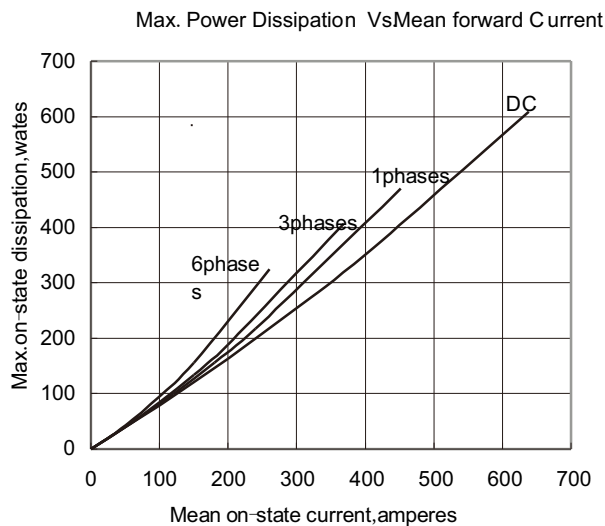


Fig. 5

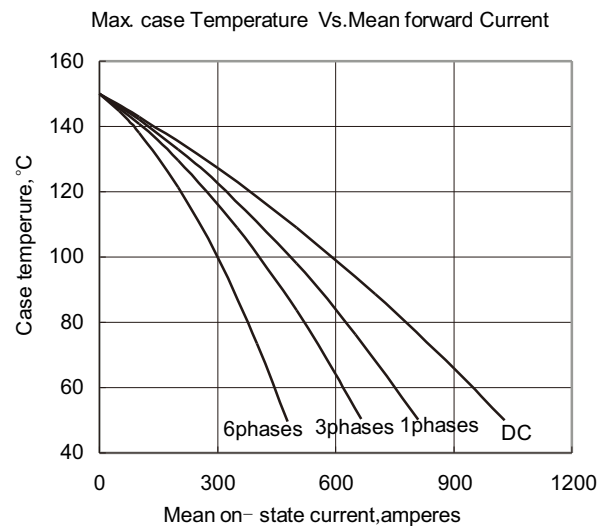


Fig. 6

## Outside Dimension

