

## 产品规格书

Specifcation of products

产品名称: 三相整流桥模块

产品型号: MDS100A-T13

浙江世菱半导体有限公司  
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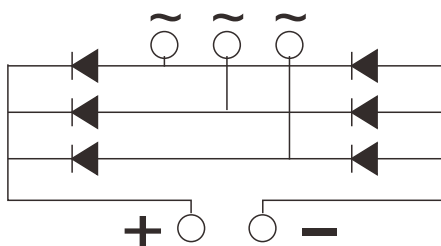
Http://www.smrshiling.com

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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                          | Three-phase full wave rectifying circuit, T <sub>C</sub> =100°C                         | 150                 |       |      | 100   | 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 sine wave                                                                     | 150                 |       |      | 0.6   | 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>                                                     |                     |       |      | 1.8   | 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>FM</sub> =100A                                                                   | 25                  |       |      | 1.10  | V                                |
| R <sub>th(j-c)</sub>        | Thermal resistance<br>Junction to heatsink | Single side cooled                                                                      |                     |       |      | 0.240 | °C /W                            |
| V <sub>iso</sub>            | Isolation voltage                          | 50Hz,R.M.S,t=1min,I <sub>iso</sub> :1mA(max)                                            |                     | 2500  |      |       | V                                |
| F <sub>m</sub>              | Terminal connection torque(M5)             |                                                                                         |                     |       | 4.0  |       | 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 DR AWING &amp; CIRCUIT DIAGRAM



### Rating and Characteristic

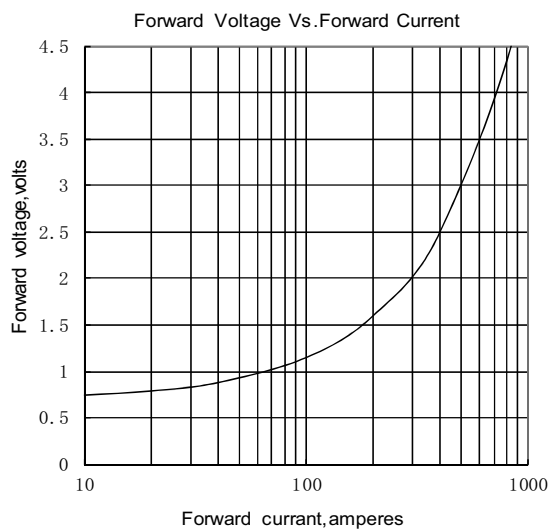


Fig.1

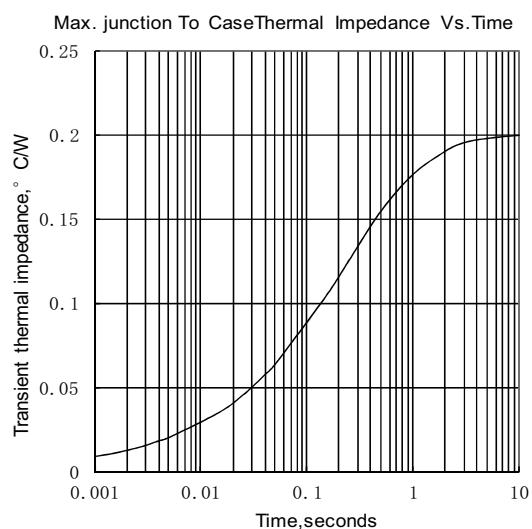


Fig.2

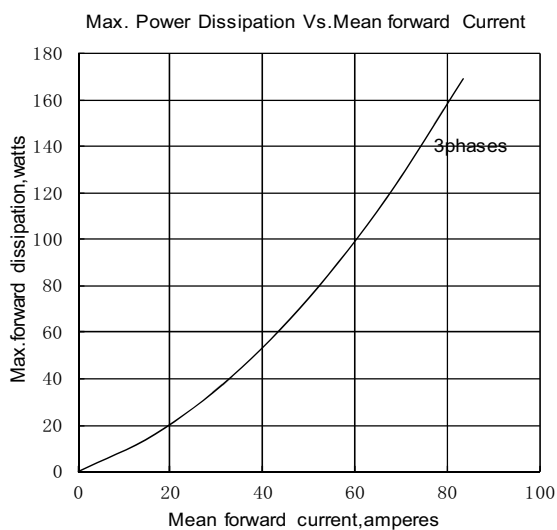


Fig.3

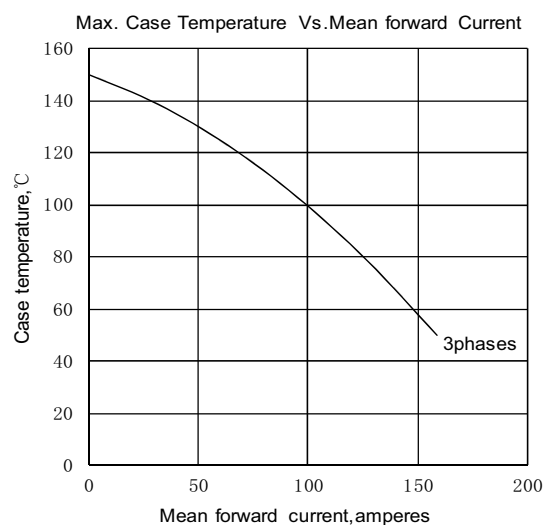


Fig.4

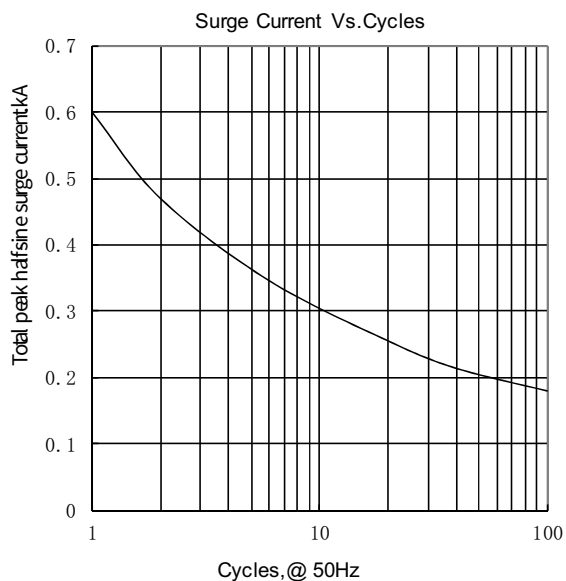


Fig.5

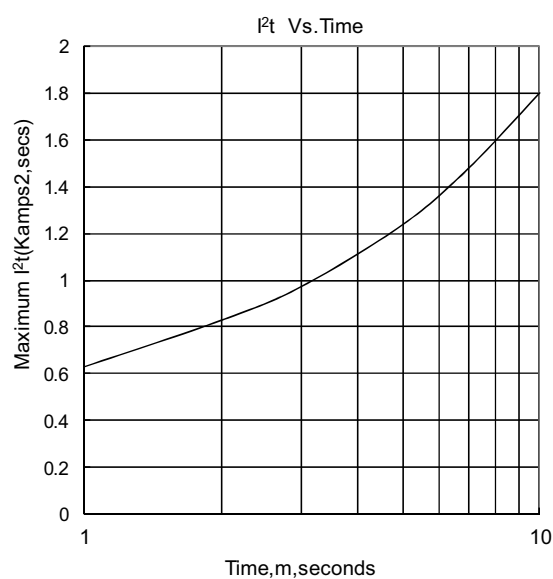
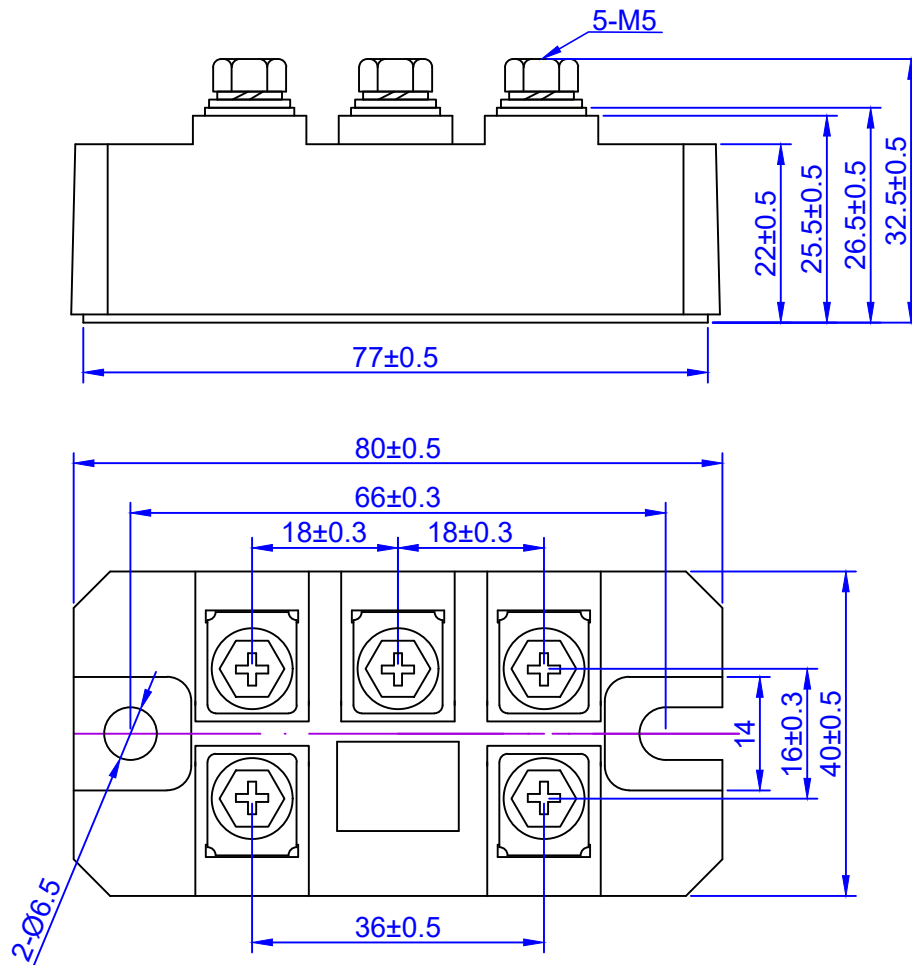


Fig.6

## Outside Dimension



Dimensions (mm)

