

## 产品规格书

### Specifcation of products

产品名称: 整流管模块

产品型号: MDK200A-T05

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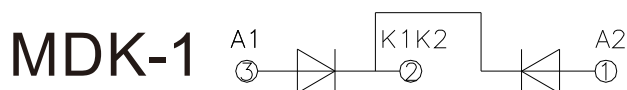
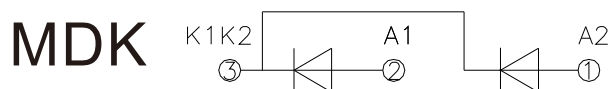
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| 拟制  | 审核  | 核准 |
| 林益龙 | 曹剑龙 | 宗瑞 |

| 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                 |       |      | 200   | A                                |
| I <sub>F(RMS)</sub>  | RMS for ward current                       | Single side cooled,T <sub>C</sub> =100°C                                                | 150                 |       |      | 314   | 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   |      | 1800  | V                                |
| I <sub>RRM</sub>     | Repetitive peak current                    | at V <sub>RRM</sub>                                                                     | 150                 |       |      | 12    | mA                               |
| I <sub>FSM</sub>     | Surge for ward current                     | 10ms half sine wave                                                                     | 150                 |       |      | 6.00  | KA                               |
| I <sup>2</sup> t     | I <sup>2</sup> T for fusing coordination   | V <sub>R</sub> =0.6V <sub>RRM</sub>                                                     |                     |       |      | 184   | 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                    |                                                                                         |                     |       |      | 1.35  | mΩ                               |
| V <sub>FM</sub>      | Peak for ward voltage                      | I <sub>FM</sub> =600A                                                                   | 25                  |       |      | 1.1   | V                                |
| R <sub>th(j-c)</sub> | Thermal resistance<br>Junction to heatsink | At 180° sine Single side cooled                                                         |                     |       |      | 0.230 | °C /W                            |
| V <sub>iso</sub>     | Isolation voltage                          | 50Hz, RM. S, t=1min, I <sub>iso</sub> : 1mA (max)                                       |                     | 2500  |      |       | V                                |
| F <sub>m</sub>       | Terminal connection torque( M6)            |                                                                                         |                     |       | 5.0  |       | N.m                              |
|                      | Mounting torque( M6)                       |                                                                                         |                     |       | 5.0  |       | N.m                              |
| T <sub>stg</sub>     | Stored temperature                         |                                                                                         |                     | -40   |      | 125   | °C                               |
| W <sub>t</sub>       | Weight                                     |                                                                                         |                     |       | 220  |       | g                                |
| Outline              |                                            |                                                                                         |                     |       |      |       |                                  |

### OUTLINE DR AWING & CIRCUIT DIAGRAM



### Rating and Characteristic

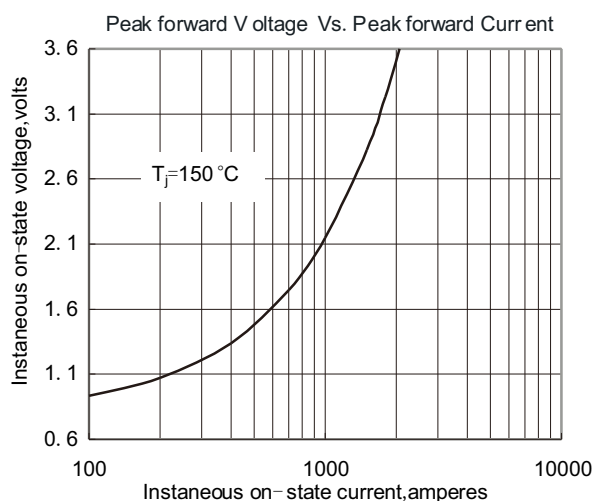


Fig. 1

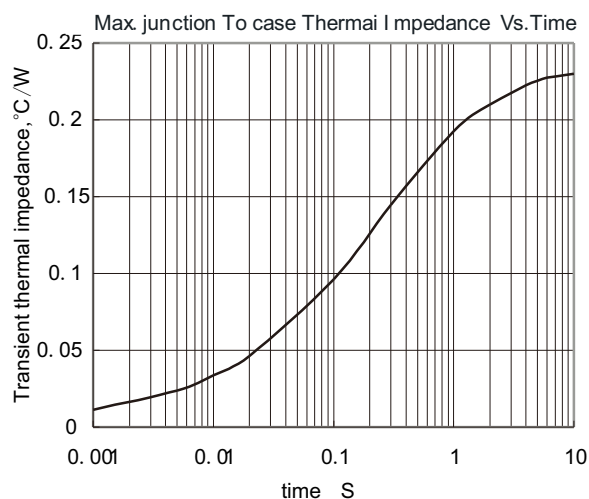


Fig. 2

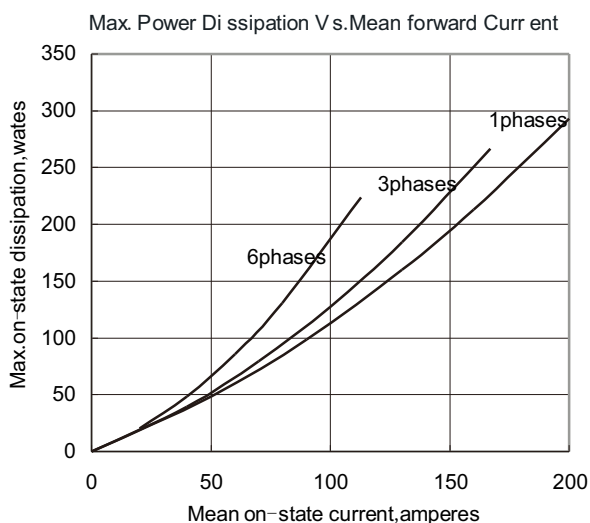


Fig. 3

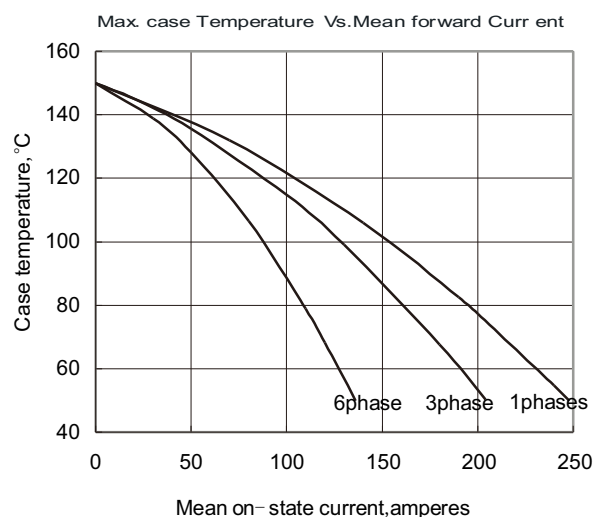


Fig. 4

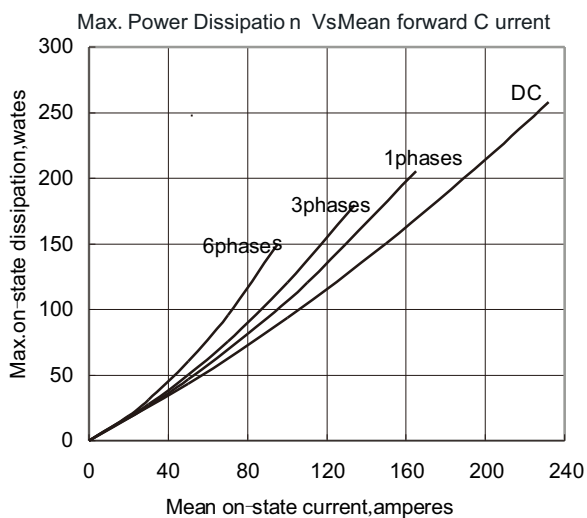


Fig. 5

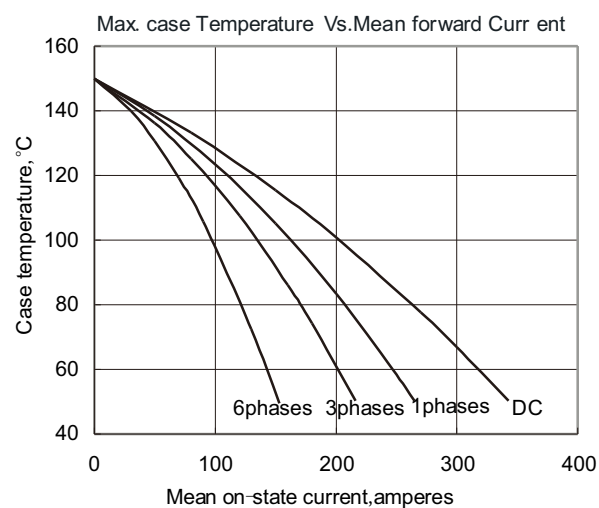


Fig. 6

## Outside Dimension

