

## Schottky Rectifier Modules



**V<sub>RRM</sub>** 100V

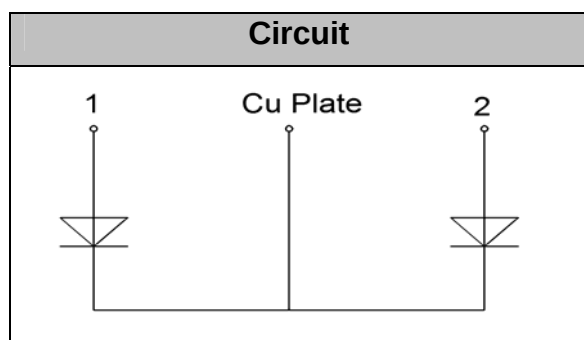
**I<sub>FAV</sub>** 400 A

### Applications

- Plating Power Supply
- High Frequency Power Supply
- High Current Switching Power Supply
- Reverse Battery Protection
- Welding Machine

### Features

- 175°C T<sub>J</sub> Operation
- Center Tap Module
- High Frequency Operation
- Low Forward Voltage
- Dual Diode Construction; May be Paralleled for High Current Output
- Lead (Pb)-free
- Designed and qualified for industrial level



### Maximum Ratings

| Symbol             | Conditions                                | Values      | Units            |
|--------------------|-------------------------------------------|-------------|------------------|
| V <sub>R</sub>     |                                           | 100         | V                |
| I <sub>F(AV)</sub> | T <sub>C</sub> =125°C, Per Diode          | 200         | A                |
|                    | T <sub>C</sub> =125°C, Per Module         | 400         | A                |
| I <sub>FSM</sub>   | 1/2 Cycle , 60Hz, Sine                    | 3000        | A                |
| I <sup>2</sup> t   | T <sub>J</sub> =45°C, t=8.3ms, 60Hz, Sine | 45000       | A <sup>2</sup> s |
| T <sub>J</sub>     |                                           | -40 to +175 | °C               |
| T <sub>STG</sub>   |                                           | -40 to +175 | °C               |
| Torque             | Recommended (M6)                          | 3~4.7       | N·m              |
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| Weight             |                                           | 92          | g                |

### Thermal Characteristics

| Symbol               | Conditions | Values | Units |
|----------------------|------------|--------|-------|
| R <sub>th(j-c)</sub> | Per diode  | 0.3    | °C/W  |

### Electrical Characteristics

| Symbol          | Conditions                                    | Values |      |      | Units |
|-----------------|-----------------------------------------------|--------|------|------|-------|
|                 |                                               | Min.   | Typ. | Max. |       |
| I <sub>RM</sub> | V <sub>R</sub> =100V                          | --     | --   | 5    | mA    |
|                 | V <sub>R</sub> =100V, T <sub>J</sub> =125°C   | --     | --   | 200  | mA    |
| V <sub>F</sub>  | I <sub>F</sub> =200A, , T <sub>J</sub> =25°C  | --     | 0.80 | 0.82 | V     |
|                 | I <sub>F</sub> =200A, , T <sub>J</sub> =125°C | --     | 0.66 | 0.68 |       |



## Performance Curves

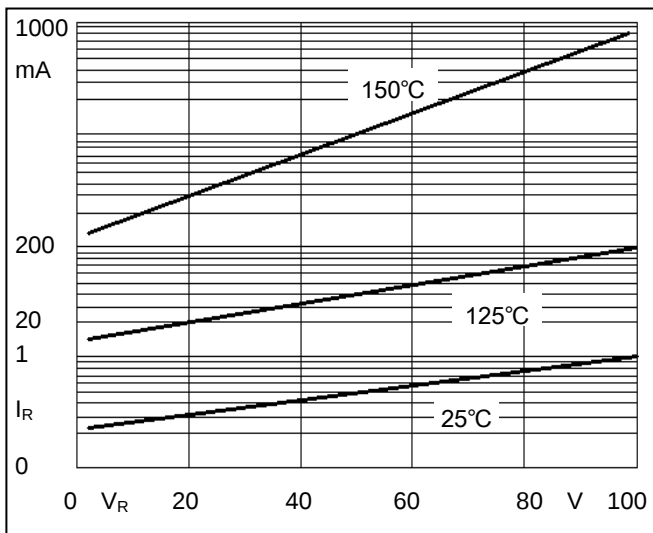
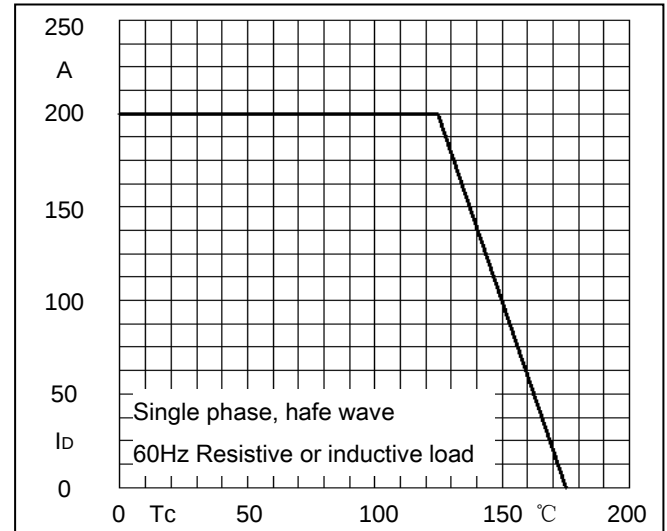
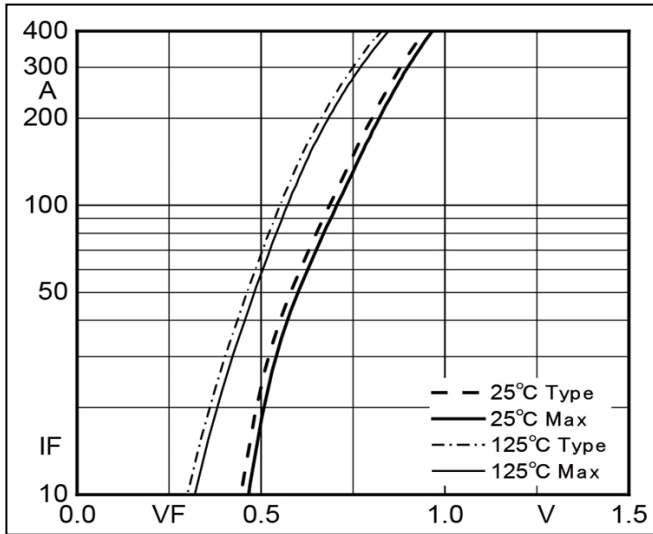
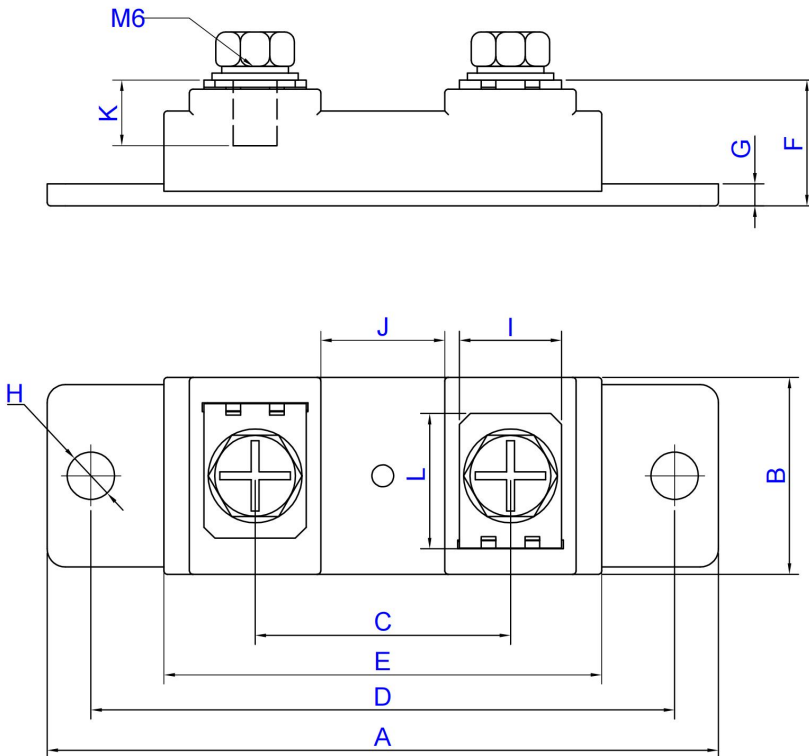


Fig3. Typical Reverse Current

## Package Outline Information

### CASE: F3



| DIM | Min (mm) | Max (mm) | Note |
|-----|----------|----------|------|
| A   | 91.5     | 92.5     |      |
| B   | 26.5     | 27.5     |      |
| C   | 34.5     | 35.5     |      |
| D   | 79.5     | 80.5     |      |
| E   | 59.5     | 60.5     |      |
| F   | 16.5     | 17.5     |      |
| G   | 2.8      | 3.2      |      |
| H   | 6.2      | 6.8      | Ø    |
| I   | 13.8     | 14.2     |      |
| J   | 16.5     | 17.5     |      |
| K   | 8.5      | 9.5      |      |
| L   | 18.2     | 18.8     |      |

## Packing Standard

| Item         | Length: A (mm) | Width: B (mm) | Height: C (mm) | Quantity (PCS) |
|--------------|----------------|---------------|----------------|----------------|
| Inner Box    | 276            | 258           | 40             | 10             |
| Outer Carton | 545            | 295           | 240            | 120            |



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