

## Schottky Rectifier Modules



**V<sub>RRM</sub>** 100V  
**I<sub>FAV</sub>** 2X100 A

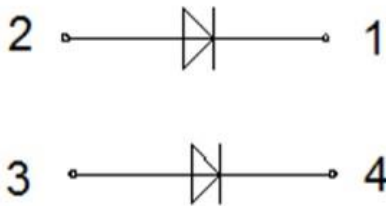
### Applications

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

### Features

- 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

**Circuit**



### 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          | 100         | A                |
|                    | T <sub>C</sub> =125°C, Per Module         | 200         | A                |
| I <sub>FSM</sub>   | 1/2 Cycle , 60Hz, Sine                    | 1500        | A                |
| I <sup>2</sup> t   | T <sub>J</sub> =45°C, t=8.3ms, 60Hz, Sine | 11250       | A <sup>2</sup> s |
| T <sub>J</sub>     |                                           | -40 to +150 | °C               |
| T <sub>STG</sub>   |                                           | -40 to +150 | °C               |
| Visol              | 3600V AC 3s                               | 1           | mA               |
| Torque             | Recommended (M4)                          | 0.6~1.2     | N·m              |
| Torque             | Recommended (M4)                          | 0.6~1       | N·m              |
| Weight             |                                           | 27          | g                |

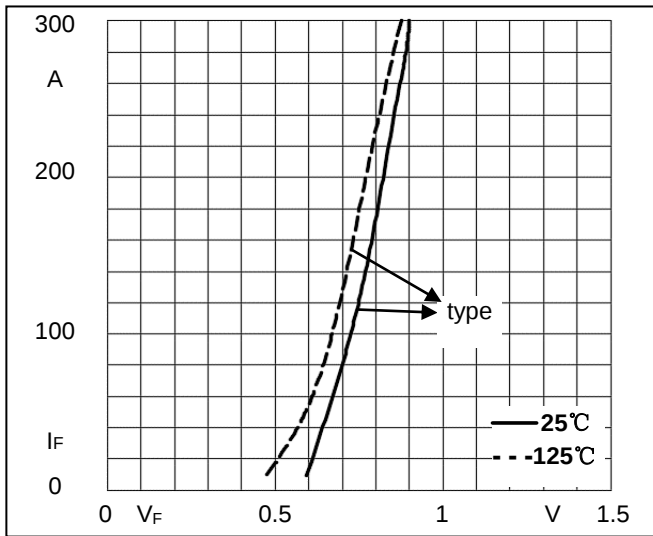
### Thermal Characteristics

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

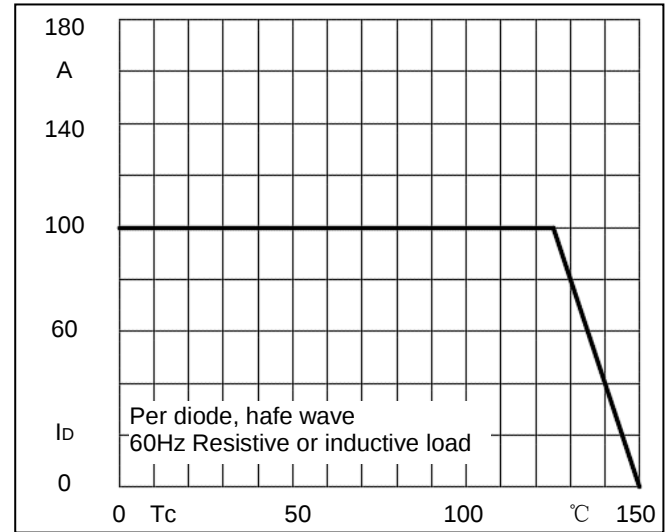
### Electrical Characteristics

| Symbol          | Conditions                                    | Values |      |      | Units |
|-----------------|-----------------------------------------------|--------|------|------|-------|
|                 |                                               | Min.   | Typ. | Max. |       |
| I <sub>RM</sub> | V <sub>R</sub> =100V                          | --     | --   | 1    | mA    |
|                 | V <sub>R</sub> =100V, T <sub>J</sub> =125°C   | --     | --   | 20   | mA    |
| V <sub>F</sub>  | I <sub>F</sub> =100A, , T <sub>J</sub> =25°C  | --     | 0.82 | 0.9  | V     |
|                 | I <sub>F</sub> =100A, , T <sub>J</sub> =125°C | --     | 0.78 | 0.86 |       |

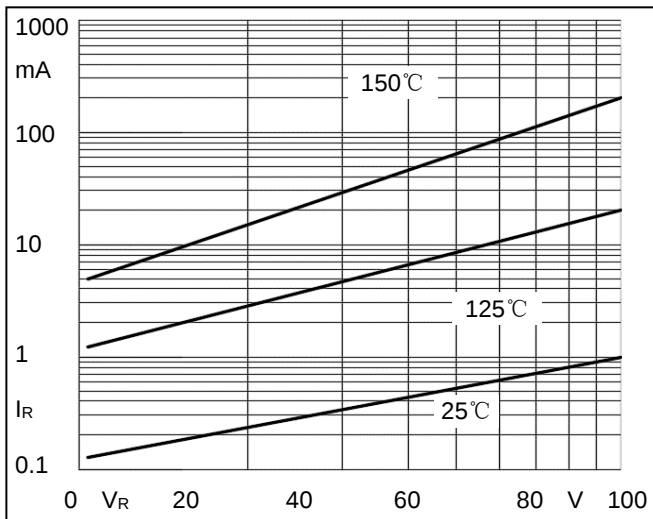
## Performance Curves



**Fig1. Forward Voltage Drop vs Forward Current**



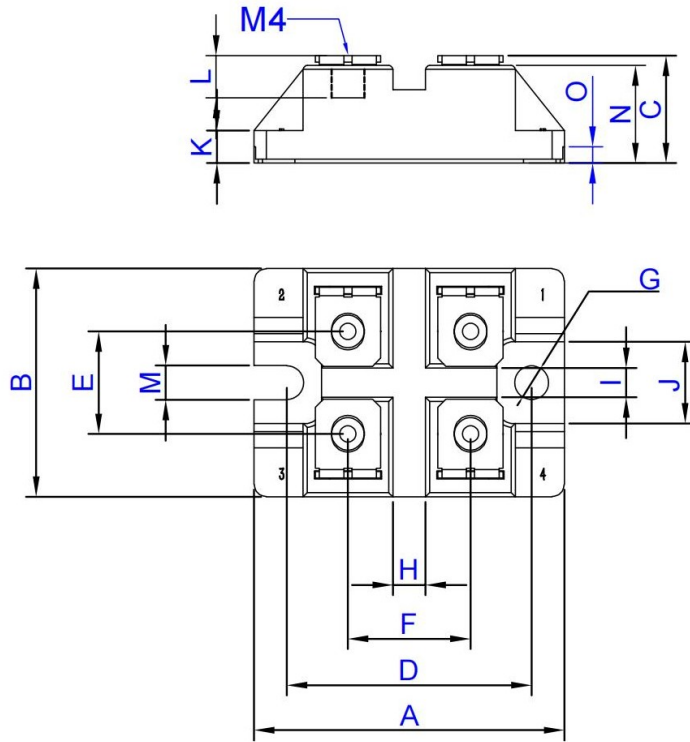
**Fig2. Forward Current Derating Curve**



**Fig3. Typical Reverse Current**

## Package Outline Information

CASE: FJ



| DIM | Min (mm) | Max (mm) | Note |
|-----|----------|----------|------|
| A   | 37.5     | 38.5     |      |
| B   | 27.5     | 28.5     |      |
| C   | 12.8     | 13.5     |      |
| D   | 29.5     | 30.5     |      |
| E   | 12.1     | 13.1     |      |
| F   | 14.5     | 15.5     |      |
| G   | 4.0      | 4.4      | Ø    |
| H   | 3.7      | 4.3      |      |
| I   | 3.3      | 3.9      |      |
| J   | 9.5      | 10.5     |      |
| K   | 3.7      | 4.3      |      |
| L   | 5.0      | 5.5      |      |
| M   | 4.0      | 4.4      |      |
| N   | 11.7     | 12.3     |      |
| O   | 1.8      | 2.2      |      |

## Packing Standard

| Item         | Length: A (mm) | Width: B (mm) | Height: C (mm) | Quantity (PCS) |
|--------------|----------------|---------------|----------------|----------------|
| Inner EPE    | 252            | 246           | 25             | 25             |
| Inner Box    | 290            | 252           | 40             | 25             |
| Outer Carton | 300            | 270           | 280            | 150            |



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