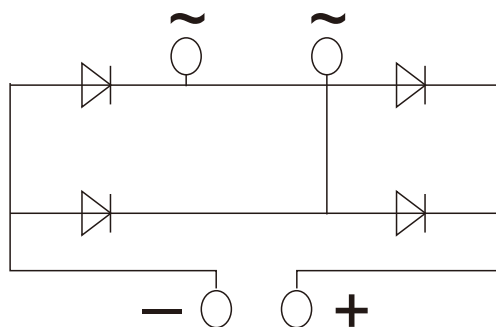
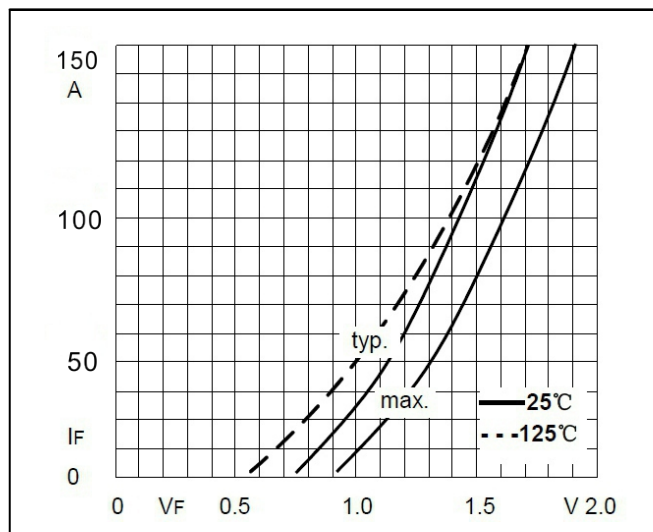


| SYMBOL               | CHARACTERISTIC                           | TEST CONDITIONS                                                                    | T <sub>j</sub> (°C) | VALUE |      |       | UNIT                             |
|----------------------|------------------------------------------|------------------------------------------------------------------------------------|---------------------|-------|------|-------|----------------------------------|
|                      |                                          |                                                                                    |                     | M in  | Type | M ax  |                                  |
| I <sub>O</sub>       | DC output current                        | Single-phase full wave rectifying circuit, T <sub>C</sub> =100°C                   | 125                 |       | 150  |       | 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> | 125                 |       | 1700 |       | V                                |
| I <sub>RRM</sub>     | Repetitive peak current                  | at V <sub>RRM</sub>                                                                | 125                 |       |      | 0.3   | mA                               |
| I <sub>FSM</sub>     | Surge forward current                    | 10ms half sine wave                                                                | 125                 |       |      | 1.5   | KA                               |
| I <sup>2</sup> t     | I <sup>2</sup> T for fusing coordination | V <sub>R</sub> =0.6V <sub>RRM</sub>                                                |                     |       |      | 9.12  | A <sup>2</sup> s*10 <sup>3</sup> |
| V <sub>FO</sub>      | Threshold voltage                        |                                                                                    | 125                 |       |      | 0.95  | V                                |
| r <sub>F</sub>       | Forward slop resistance                  |                                                                                    |                     |       |      | 6.0   | mΩ                               |
| V <sub>FM</sub>      | Peak forward voltage                     | I <sub>FM</sub> =150A                                                              | 25                  |       |      | 1.9   | V                                |
| t <sub>rr</sub>      | Reverse Recove ry Tei m                  | I <sub>F</sub> =1A, V <sub>R</sub> =30V, di <sub>F</sub> /dt=-200A/μs              |                     |       |      | 115   | ns                               |
| R <sub>th(j-c)</sub> | Thermal resistance Junction to heatsink  | Single side cooled                                                                 |                     |       |      | 0.150 | °C /W                            |
| V <sub>iso</sub>     | Isolation voltage                        | 50Hz,R.M.S,t=1min,I <sub>iso</sub> :1mA(max)                                       |                     | 3000  |      |       | 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                                   |                                                                                    |                     |       | 155  |       | g                                |
| Outline              |                                          |                                                                                    |                     |       |      |       |                                  |

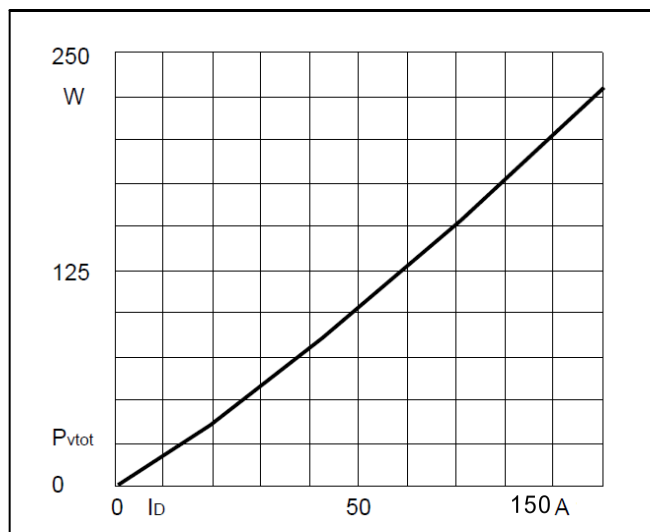
## OUTLINE DRAWING & CIRCUIT DIAGRAM



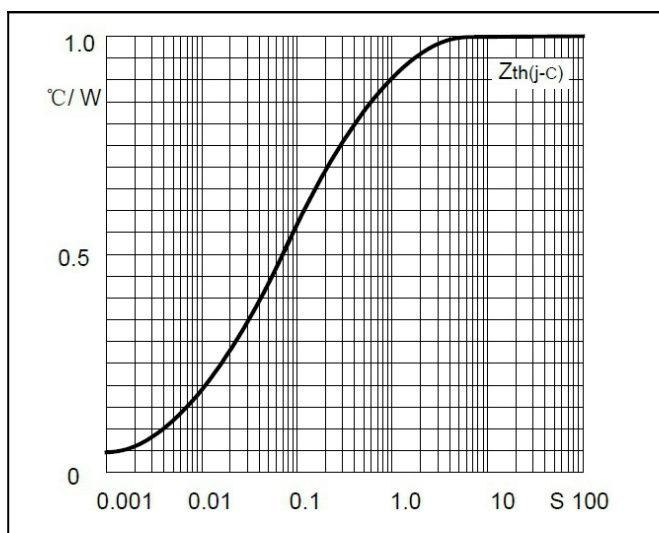
## Rating and Characteristic



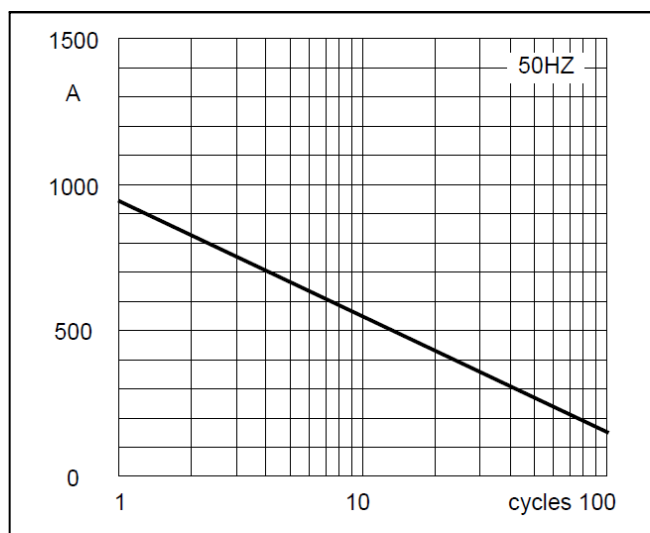
**Fig1. Forward Characteristics**



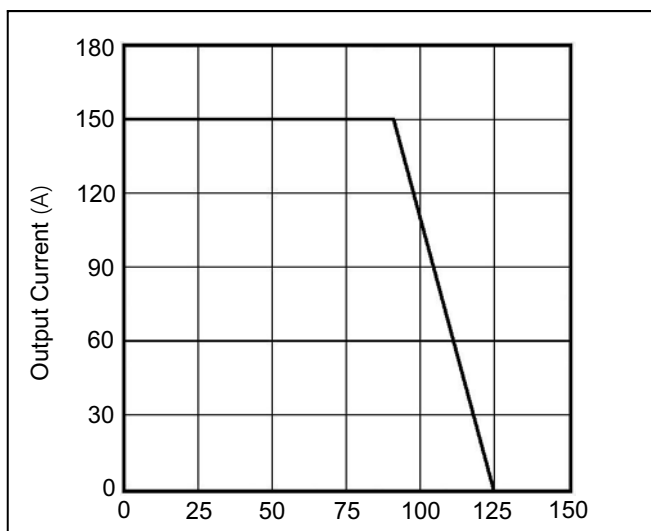
**Fig2. Power dissipation**



**Fig3. Transient thermal impedance**



**Fig4. Max Non-Repetitive Forward Surge Current**



**Fig5. Forward Current Derating Curve**

**Package Outline Information**

