

### Features:

- Isolated mounting base 3600V~
- Pressure contact technology with  
Increased power cycling capability
- Space and weight savings

### Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

|             |                                     |
|-------------|-------------------------------------|
| $I_{F(AV)}$ | 110A                                |
| $V_{RRM}$   | 2600~3600V                          |
| $I_{FSM}$   | 2.60 A×10 <sup>3</sup>              |
| $I^2t$      | 33 A <sup>2</sup> S×10 <sup>3</sup> |



| SYMBOL         | CHARACTERISTIC                           | TEST CONDITIONS   | T <sub>f</sub> (°C) | VALUE |      |       | UNIT                             |
|----------------|--|---|---------------------|-------|------|-------|----------------------------------|
|                |  |   |                     | Min   | Type | Max   |                                  |
| $I_{F(AV)}$    | Mean forward current                     | 180° half sine wave 50Hz<br>Single side cooled, T <sub>C</sub> =100°C | 150                 |       |      | 110   | A                                |
| $I_{F(RMS)}$   | RMS forward current                      |   | 150                 |       |      | 173   | A                                |
| $V_{RRM}$      | Repetitive peak reverse voltage          | V <sub>RRM</sub> tp=10ms<br>V <sub>RSM</sub> = V <sub>RRM</sub> +100V | 150                 | 2600  |      | 3600  | V                                |
| $I_{RRM}$      | Repetitive peak current                  | at V <sub>RRM</sub>   | 150                 |       |      | 20    | mA                               |
| $I_{FSM}$      | Surge forward current                    | 10ms half sine wave   | 150                 |       |      | 2.60  | KA                               |
| $I^2t$         | I <sup>2</sup> T for fusing coordination | V <sub>R</sub> =0.6V <sub>RRM</sub>                                   |                     |       |      | 33    | A <sup>2</sup> S×10 <sup>3</sup> |
| $V_{FO}$       | Threshold voltage                        |   | 150                 |       |      | 0.95  | V                                |
| $r_F$          | Forward slop resistance                  |   |                     |       |      | 1.76  | mΩ                               |
| $V_{FM}$       | Peak forward voltage                     | I <sub>FM</sub> =330A   | 25                  |       |      | 2.25  | V                                |
| $R_{th(j-c)}$  | Thermal resistance<br>Junction to case   | At 180° sine: Single side cooled                                      |                     |       |      | 0.310 | °C /W                            |
| $R_{th(c-h)}$  | Thermal resistance<br>case to heatsink   | At 180° sine: Single side cooled                                      |                     |       |      | 0.08  | °C /W                            |
| $V_{iso}$      | Isolation voltage                        | 50Hz, R.M.S, t=1min, I <sub>iso</sub> : 1mA(max)                      |                     | 3600  |      |       | V                                |
| $F_m$          | Terminal connection torque(M5)           |   |                     |       | 4    |       | N·m                              |
|                | Mounting torque(M6)                      |   |                     |       | 6    |       | N·m                              |
| $T_{stg}$      | Stored temperature                       |   |                     | -40   |      | 125   | °C                               |
| $W_t$          | Weight                                   |   |                     |       | 320  |       | g                                |
| <b>Outline</b> | 231F3                                    |   |                     |       |      |       |                                  |

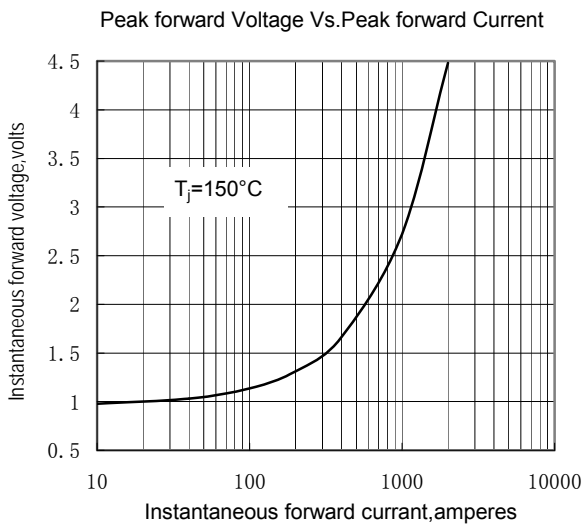


Fig.1

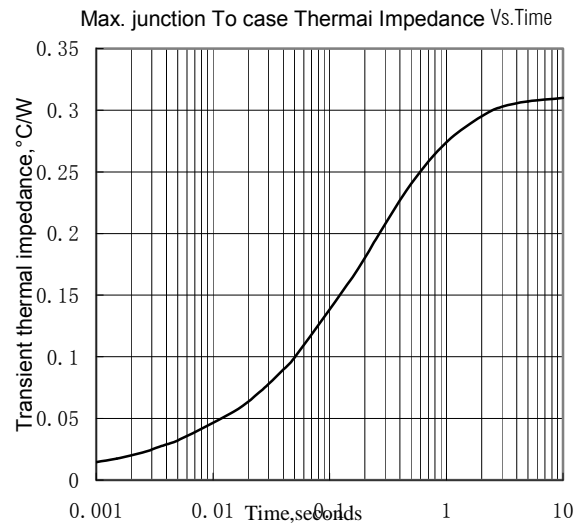


Fig.2

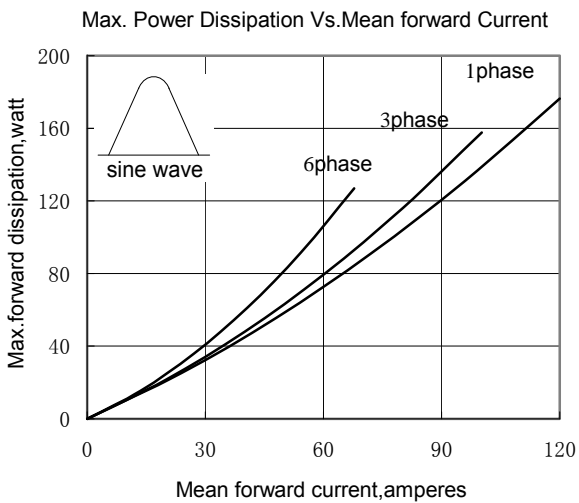


Fig.3

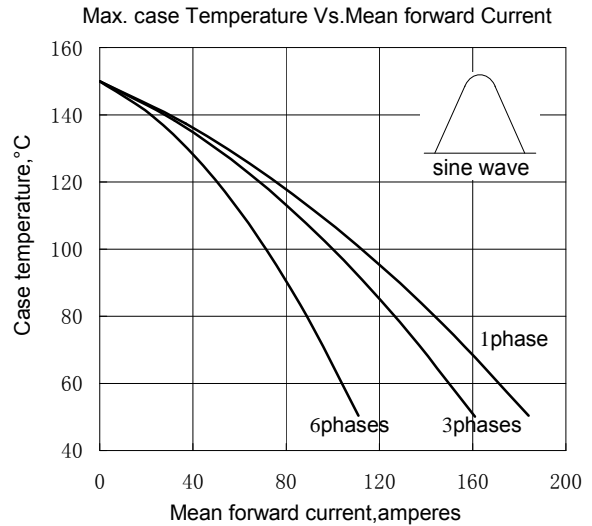


Fig.4

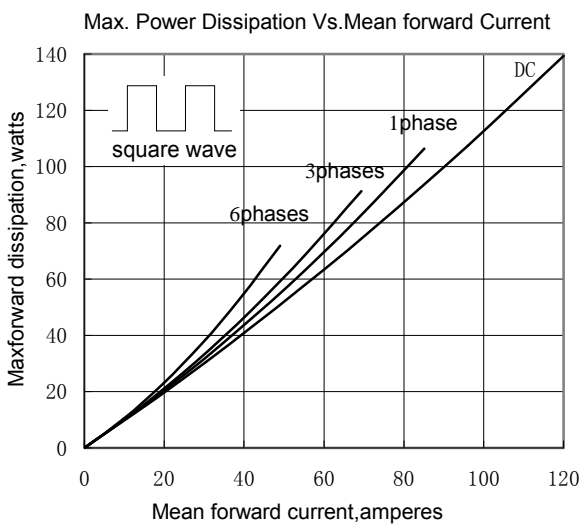


Fig.5

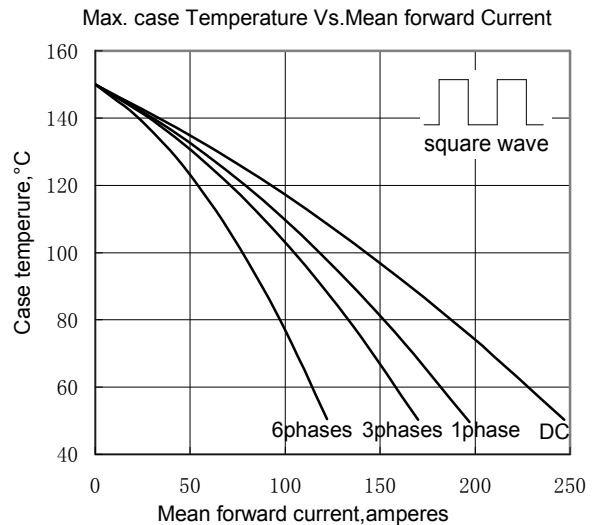
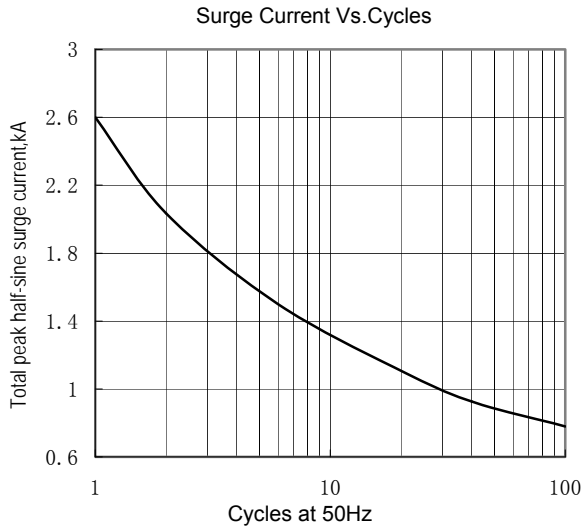
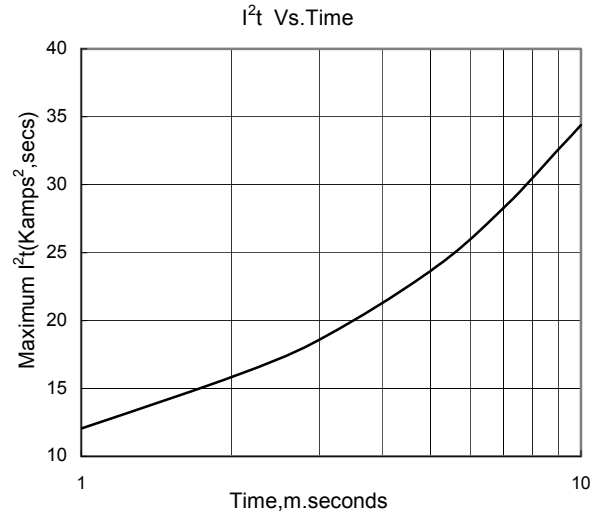


Fig.6



**Fig.7**



**Fig.8**

**Outline:**

