

# ZP200A-B

## STANDARD RECOVERY DIODE



### Features

Low forward voltage drop  
Soft recovery  
Hermetic metal cases with ceramic insulators

### Application

Inverters and choppers  
AC. motor control  
Snubber and free-wheeling diodes

|             |                     |
|-------------|---------------------|
| $I_{F(AV)}$ | 200A                |
| $V_{RRM}$   | 200-1000V           |
| $I_{FSM}$   | 2.8KA               |
| $I^2t$      | 40KA <sup>2</sup> S |

| SYMBOL                         |               | PARAMETERS                                  | TESTING CONDITION                                                   | $T_j(^{\circ}C)$ | VALUES    | UNIT              |
|--------------------------------|---------------|---------------------------------------------|---------------------------------------------------------------------|------------------|-----------|-------------------|
| Current<br>Tatings             | $I_{F(AV)}$   | average forward current                     | 180° half sine wave 50Hz Double side cooled, $T_{hs}=131^{\circ}C$  | 150              | 200       | A                 |
|                                | $I_{F(AV)}$   | average forward current                     | 180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$   | 150              | 606       | A                 |
|                                | $I_{FSM}$     | Surge forward current                       | 10ms half sine wave                                                 | 150              | 2.8       | KA                |
|                                | $I^2t$        | $I^2t$ for fusing coordination              | $V_R=0.6V_{RRM}$                                                    | 150              | 40        | KA <sup>2</sup> S |
| Characteristics                | $V_{RRM}$     | Repetitive peak reverse voltage             | $V_{RRM}$ tp=10ms<br>$V_{RSM}=V_{RRM}+100V$                         | 150              | 200-1000  | V                 |
|                                | $I_{RRM}$     | Repetitive peak current                     | $V_{RM}=V_{RRM}$                                                    | 150              | Max.16    | Ma                |
|                                | $V_{FM}$      | Peak on-state voltage                       | $I_{TM}=600A$ , $F=5.0KN$                                           | 25               | Max.1.8   | V                 |
|                                | $V_{FO}$      | Threshold voltage                           |                                                                     | 150              | Max.0.73  | V                 |
|                                | $r_F$         | Forward slop resistance                     |                                                                     |                  | Max.0.68  | mΩ                |
|                                | $I_{rm}$      | Reverse recovery current                    | $I_{TM}=600A$ , $t_p=1000\mu s$ ,<br>$di/dt=-20A/\mu s$ , $V_r=50V$ | 150              | Max.70    | A                 |
|                                | $t_{rr}$      | Reverse recovery time                       |                                                                     |                  | Max.4.0   | μs                |
|                                | $Q_{rr}$      | Recovery charge                             |                                                                     |                  | Max.140   | μc                |
| Thermal<br>&Mechanical<br>Date | $R_{th(j-h)}$ | Thermal resistance<br>Junction to heat sink | At 180° sine, double side cooled<br>mounting force 5.0KN            |                  | Max.0.090 | °C/W              |
|                                | $F_m$         | Mounting force                              |                                                                     |                  | 3.3-5.5   | KN                |
|                                | $T_{stg}$     | Stored temperature                          |                                                                     |                  | -40-160   | °C                |
|                                | $W_t$         | Weight                                      |                                                                     |                  | 50        | g                 |

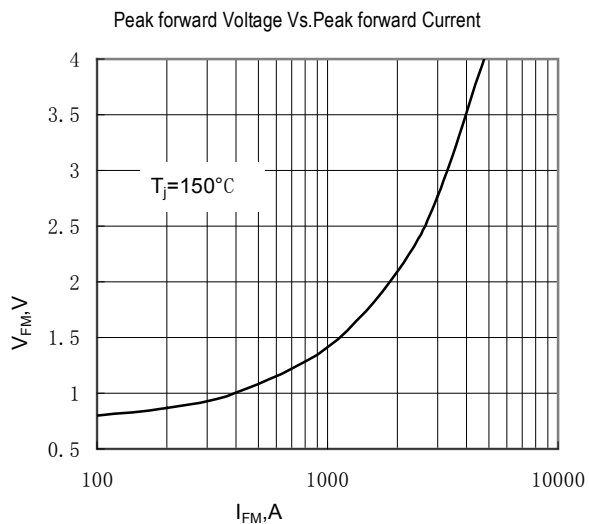


Fig.1

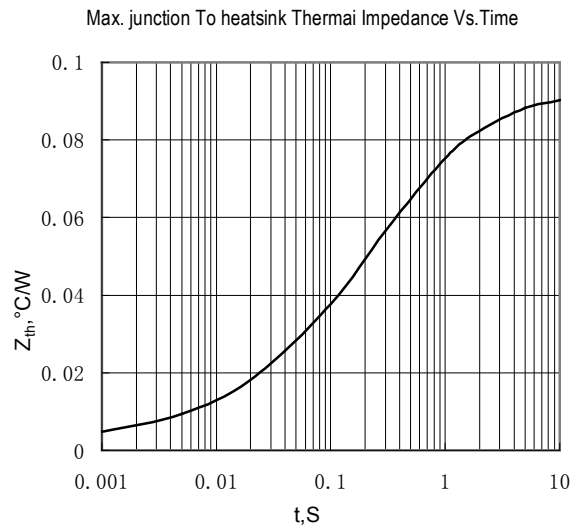


Fig.2

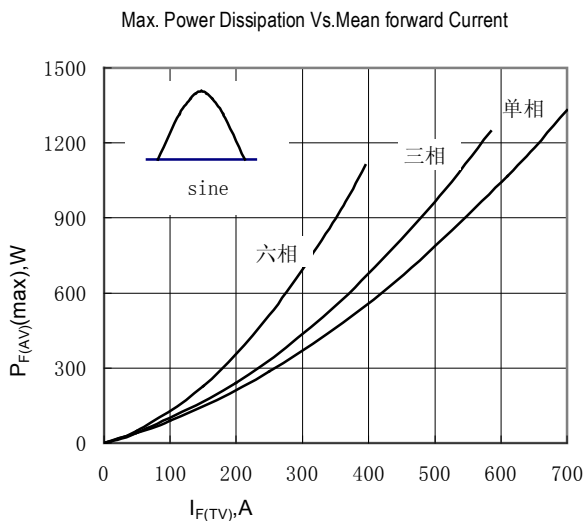


Fig.3

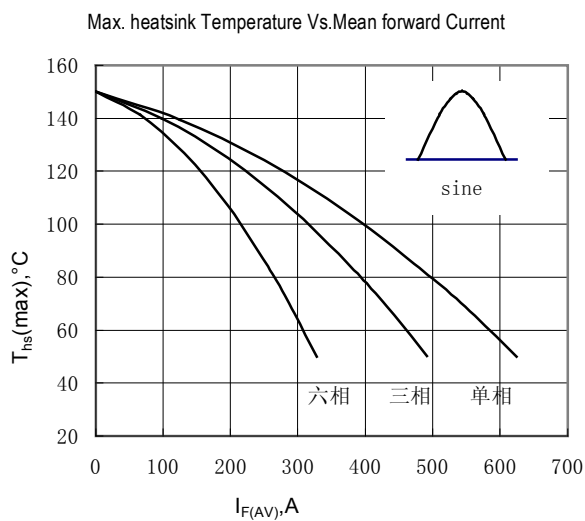


Fig.4

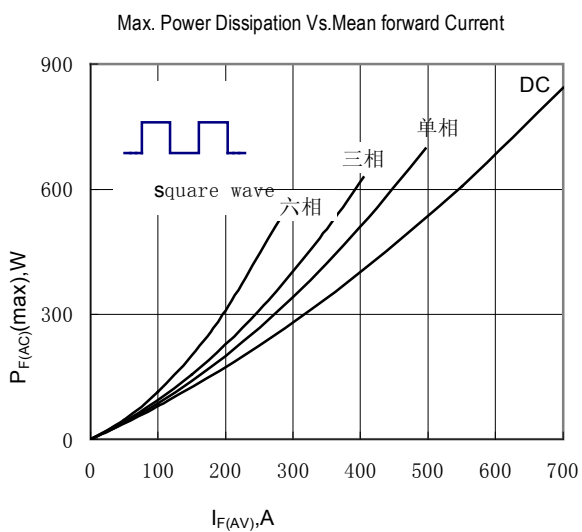


Fig.5

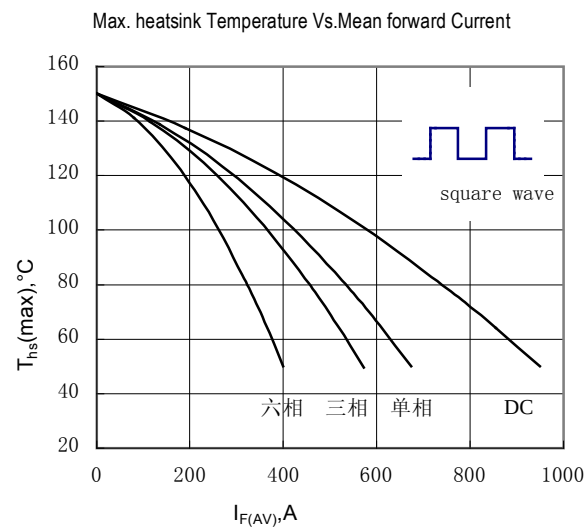
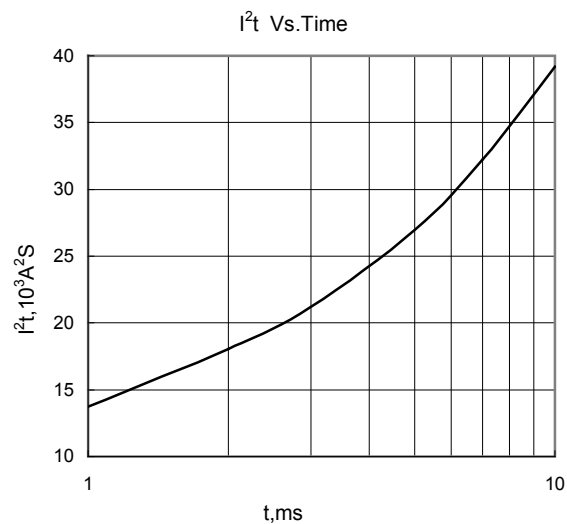
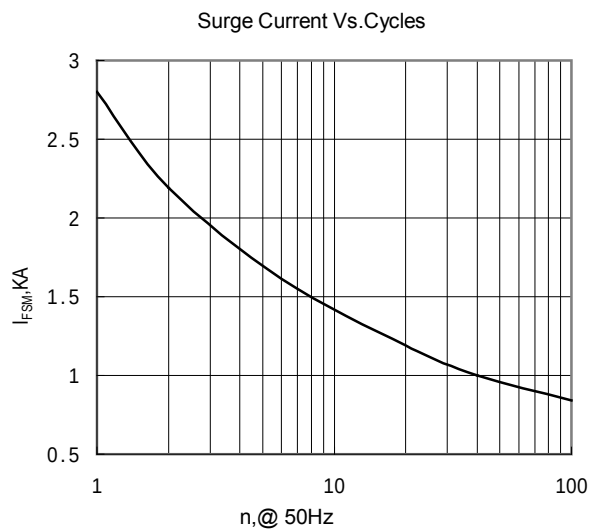
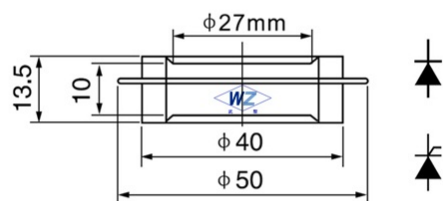


Fig.6

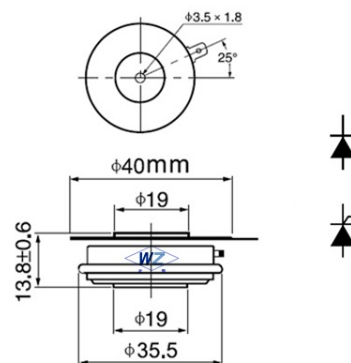


Dimensions:

C2



C7



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