

**Features**

- A package of series of two diodes
- Heat transfer through alumina ceramic and metal substrate
- Welding by vacuum welding technology, which provide high reliability

**Product Summary****Applications**

- AC converter
- Inverter
- DC motor

**Absolute Maximum Ratings (@  $T_C = 25^\circ\text{C}$  unless otherwise specified)**

| Parameter                           | Conditions                  | Symbol      | Values | Unit |
|-------------------------------------|-----------------------------|-------------|--------|------|
| Repetitive peak reverse voltage     | $T_{vj} = 25^\circ\text{C}$ | $V_{RRM}$   | 1800   | V    |
| Non-repetitive peak reverse voltage | $T_{vj} = 25^\circ\text{C}$ | $V_{RSM}$   | 1900   | V    |
| Average forward current             | $T_C = 100^\circ\text{C}$   | $I_{F(AV)}$ | 250    | A    |

Forward surge current

1/2 cycle, Sine wave, 50Hz

 $T_{vj} = 25$

**Electrical Characteristics (@  $T_C = 25^\circ\text{C}$  unless otherwise specified)**

| Parameter               | Conditions                                          | Symbol    | Values |      |      | Unit |
|-------------------------|-----------------------------------------------------|-----------|--------|------|------|------|
|                         |                                                     |           | Min.   | Typ. | Max. |      |
| Peak forward voltage    | $I_F=750\text{A}$ , $t_P=380$                       | $V_{FM}$  |        |      | 1.60 | V    |
| Reverse leakage current | $V_R = V_{RRM}$ , $T_{vj} = 25$                     | $I_{RRM}$ |        |      | 100  | A    |
|                         | $V_R = V_{RRM}$ , $T_{vj} = 150$                    |           |        |      | 90   | mA   |
| Threshold voltage       | $T_{vj} = 150$ ,<br>for power loss calculation only | $V_{TO}$  |        |      | 0.81 | V    |
| Dynamic resistance      |                                                     | $r_T$     |        |      | 0.8  | m    |

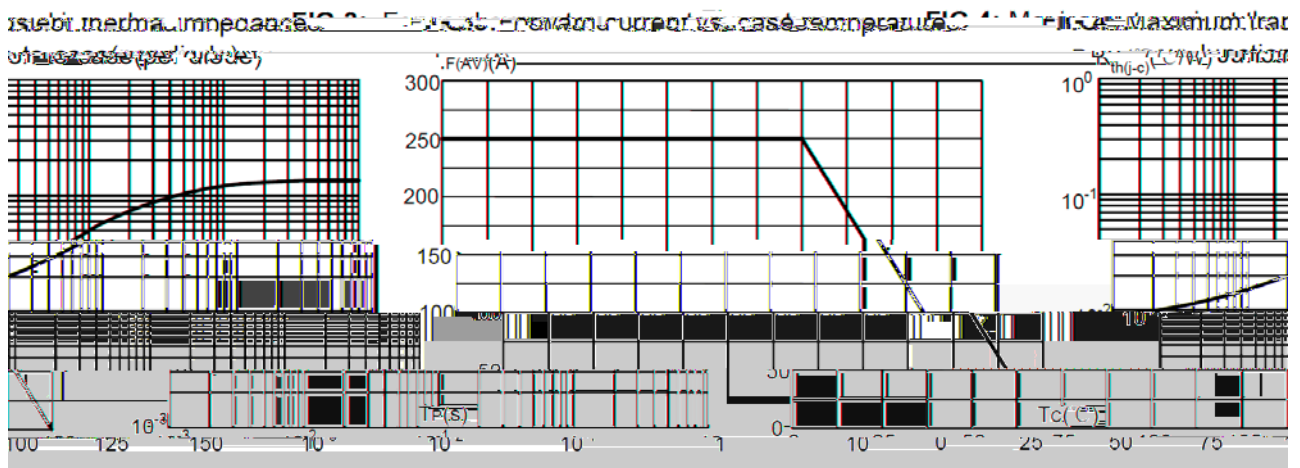
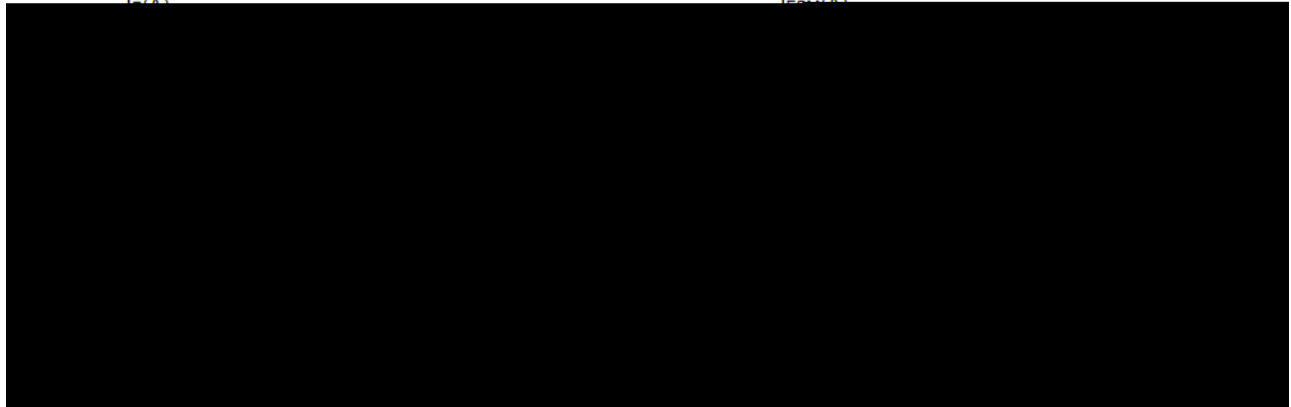
**Thermal Characteristics (@  $T_C = 25^\circ\text{C}$  unless otherwise specified)**

| Parameter                            | Conditions                            | Symbol        | Values |      |      | Unit |
|--------------------------------------|---------------------------------------|---------------|--------|------|------|------|
|                                      |                                       |               | Min.   | Typ. | Max. |      |
| Thermal resistance, junction to case | per diode                             | $R_{th(j-c)}$ |        | 0.13 |      | /W   |
| Thermal resistance, case to heatsink | per diode                             | $R_{th(c-s)}$ |        | 0.07 |      | /W   |
| Mounting torque                      | Module and heatsink fixed torque M5   | M             | 4.25   |      | 5.75 | N·m  |
|                                      | Electrode connection torque, screw M6 |               | 4.25   |      | 5.75 | N·m  |

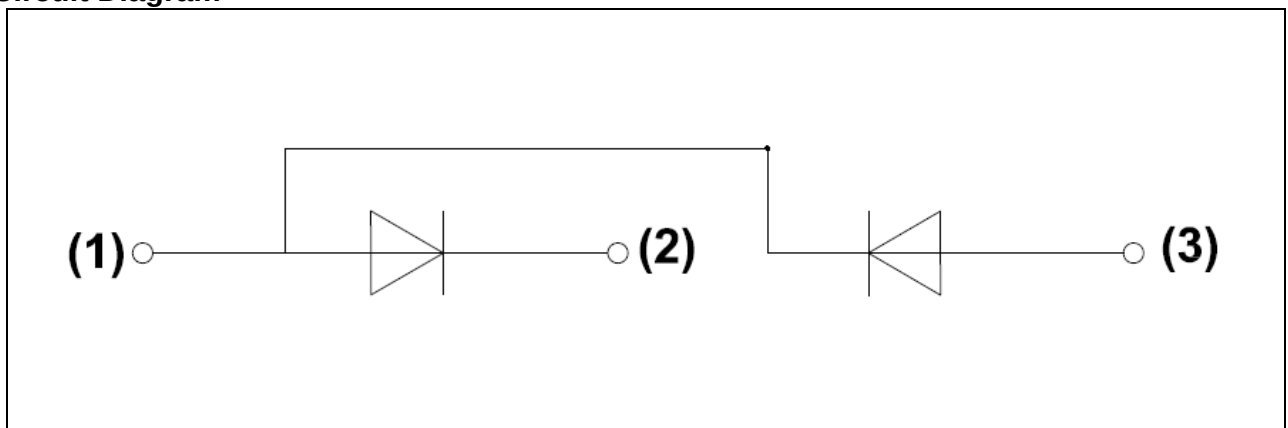
**Ordering Information**

| Device        | Marking       | Package | Weight      | Inner Box | Pre Carton |
|---------------|---------------|---------|-------------|-----------|------------|
| JMD250KD18T2W | JMD250KD18T2W | T2      | 170 10g/PCS | 6 PCS     | 72 PCS     |

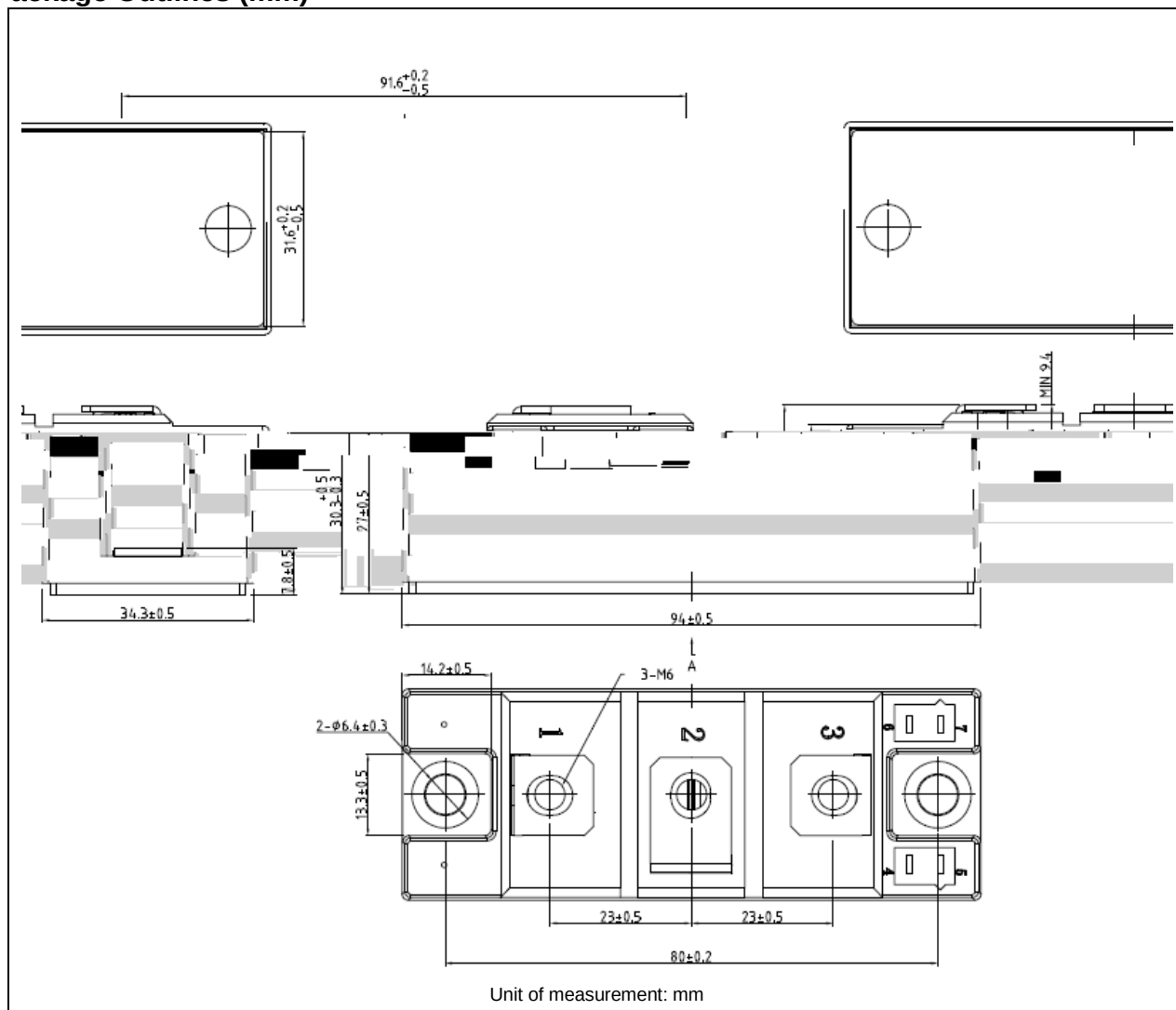
## Typical Electrical & Thermal Characteristics

**FIG.1: Forward characteristics(per diode)**
**FIG.2: Peak on-state surge current**


## Circuit Diagram



### Package Outlines (mm)





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