

CURRENT 260 Ampere  
 VOLTAGE RANG 600 to 1800 Volts

**MDK260; MDA260; MDC260**



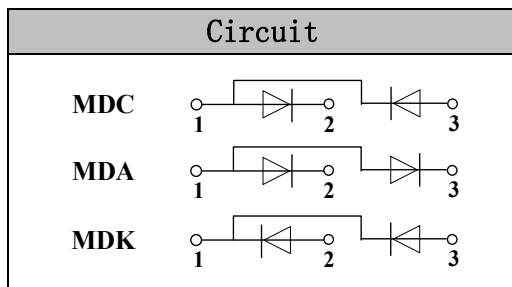
**VRRM** 800 to 1800V  
**IFAV** 260 Amp

### Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

### Features

- Blocking voltage: 800 to 1800V
- Heat transfer through aluminum nitride ceramic isolated metal baseplate



### Module Type

| TYPE      |           |           | VRRM  | VRSRM |
|-----------|-----------|-----------|-------|-------|
| MDC260-08 | MDA260-08 | MDK260-08 | 800V  | 900V  |
| MDC260-12 | MDA260-12 | MDK260-12 | 1200V | 1300V |
| MDC260-16 | MDA260-16 | MDK260-16 | 1600V | 1700V |
| MDC260-18 | MDA260-18 | MDK260-18 | 1800V | 1900V |

### Maximum Ratings

| Symbol           | Conditions           | Values      | Units            |
|------------------|----------------------|-------------|------------------|
| IFAV             | Tc=85°C              | 260         | A                |
| IFSM             | t=10mS Tvj =45°C     | 11000       | A                |
| i <sup>2</sup> t | t=10mS Tvj =45°C     | 605000      | A <sup>2</sup> s |
| Visol            | a.c.50HZ;r.m.s.;1min | 3000        | V                |
| Tvj              |                      | -40 to +150 | °C               |
| Tstg             |                      | -40 to +125 | °C               |
| Mt               | To terminals(M8)     | 9±15%       | Nm               |
| Ms               | To heatsink(M6)      | 5±15%       | Nm               |
| Weight           | Module               | 650         | g                |

### Thermal Characteristics

| Symbol   | Conditions | Values | Units |
|----------|------------|--------|-------|
| Rth(j-c) | Module     | 0.08   | °C/W  |
| Rth(c-s) | Module     | 0.05   | °C/W  |

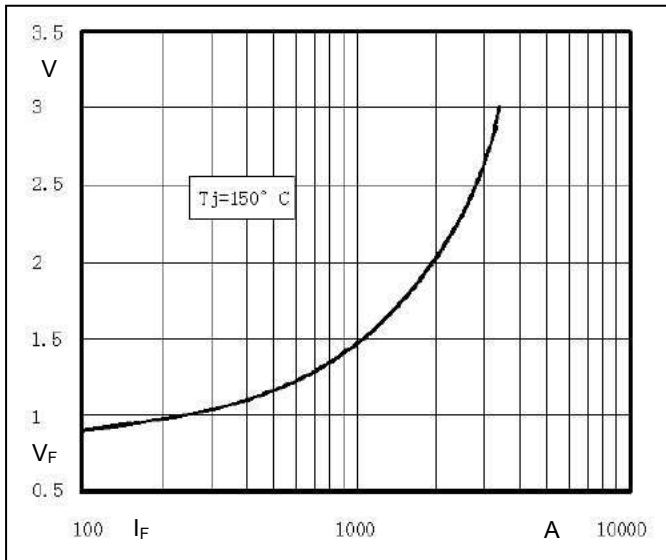
### Electrical Characteristics

| Symbol | Conditions        | Values | Units |
|--------|-------------------|--------|-------|
| VFM    | T=25°C IFM =750A  | 1.25   | V     |
| IRD    | Tvj=TvjM VRD=VRRM | ≤15    | mA    |

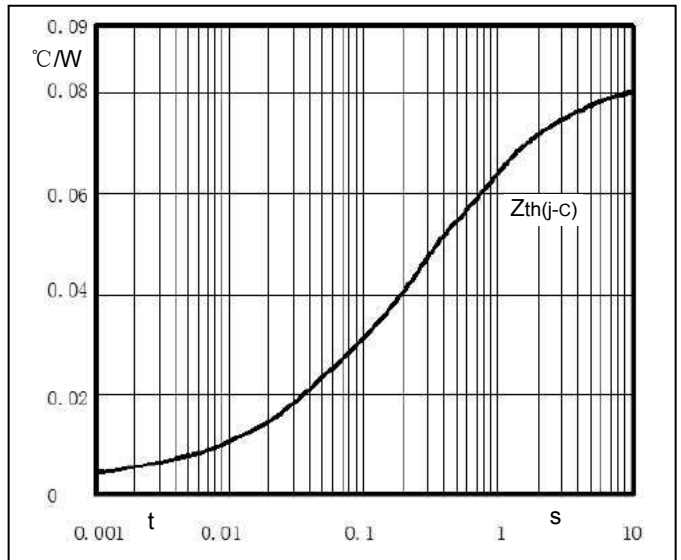
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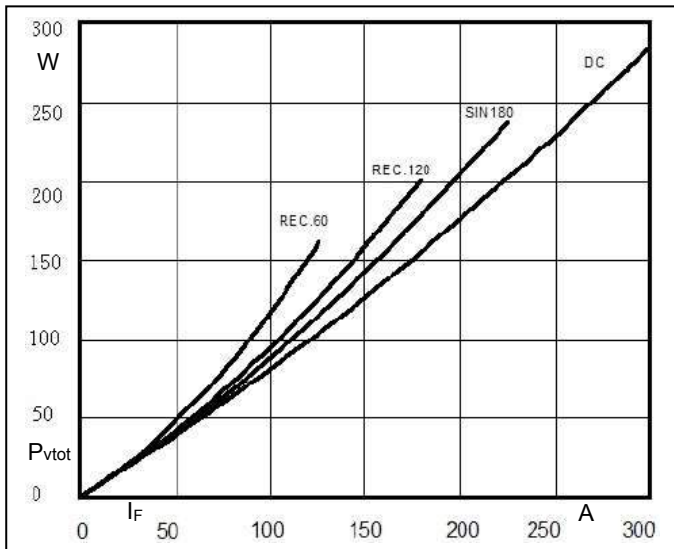
**Performance Curves**



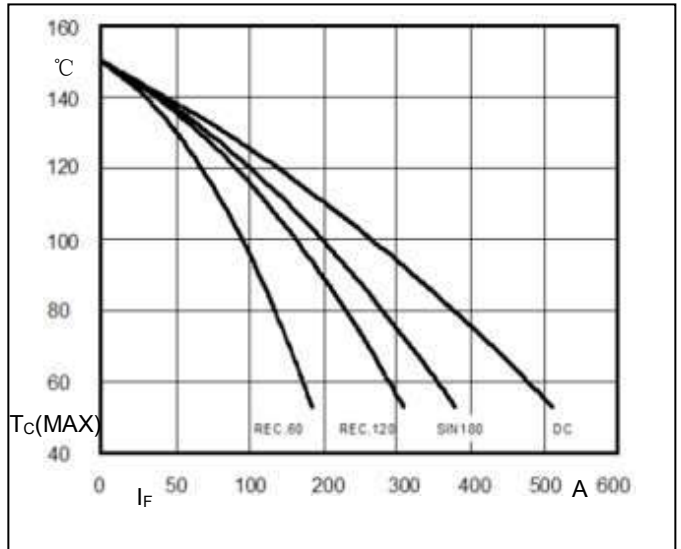
**Fig1. Forward Characteristics**



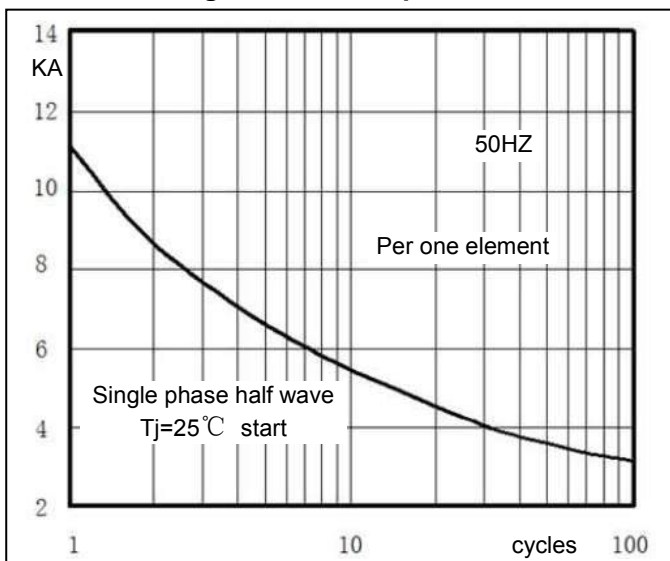
**Fig2. Transient thermal impedance**



**Fig3. Power dissipation**



**Fig4. case temperatruue vs. forward current**



**Fig5. Max Non-Repetitive Forward Surge Current**

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**Package Outline Information**

