



Features :

- Non-isolated. Mounting base as common anode cathode terminal.
- Pressure contact technology with Increased power cycling capability
- Low forward voltage drop

Typical Applications :

- Welding Power Supply
- Various Dc power supplies.

| V _{RRM} | Type & Outline | |
|------------------|------------------|------------------|
| 800V | MD200-08-210F2NA | MD200-08-210F2NK |
| 1000V | MD200-10-210F2NA | MD200-10-210F2NK |
| 1200V | MD200-12-210F2NA | MD200-12-210F2NK |
| 1400V | MD200-14-210F2NA | MD200-14-210F2NK |
| 1600V | MD200-16-210F2NA | MD200-16-210F2NK |
| 1800V | MD200-18-210F2NA | MD200-18-210F2NK |

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | T _j (°C) | VALUE | | | UNIT |
|----------------------|--|---|---------------------|-------|------|------|----------------------------------|
| | | | | Min | Type | Max | |
| I _{F(AV)} | Mean forward current | 180° half sine wave 50Hz Single side cooled, T _c =100°C | 150 | | | 200 | A |
| I _{F(RMS)} | RMS forward current | | | | | 314 | A |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 150 | | | 8 | mA |
| I _{FSM} | Surge forward current | V _R =60%V _{RRM} , t=10ms half sine | 150 | | | 6.2 | kA |
| I ² t | I ² t for fusing coordination | | | | | 192 | 10 ³ A ² s |
| V _{FO} | Threshold voltage | | 150 | | | 0.80 | V |
| r _F | Forward slope resistance | | | | | 0.96 | mΩ |
| V _{FM} | Peak forward voltage | I _{FM} =600A | 25 | | | 1.50 | V |
| R _{th(j-c)} | Thermal resistance Junction to case | Single side cooled per chip | | | | 0.20 | °C/W |
| R _{th(c-h)} | Thermal resistance case to heatsink | Single side cooled per chip | | | | 0.10 | °C/W |
| F _m | Terminal connection torque(M6) | | | 4.5 | | 6.0 | N·m |
| | Mounting torque(M6) | | | 4.5 | | 6.0 | N·m |
| T _{vj} | Junction temperature | | | -40 | | 150 | °C |
| T _{stg} | Stored temperature | | | -40 | | 125 | °C |
| W _t | Weight | | | | 185 | | g |
| Outline | 210F2NA, 210F2NK | | | | | | |

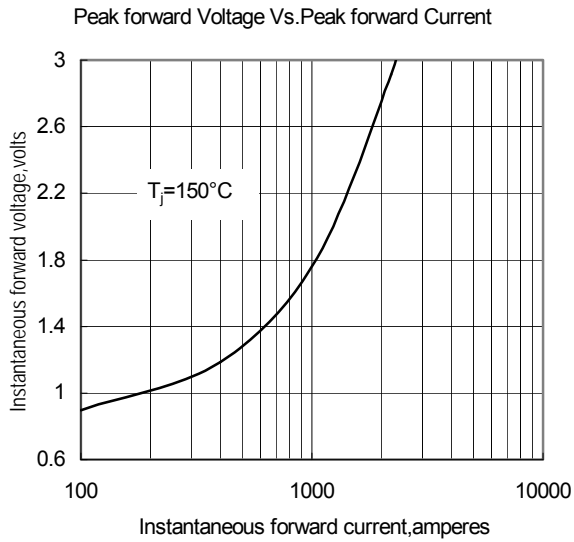


Fig.1

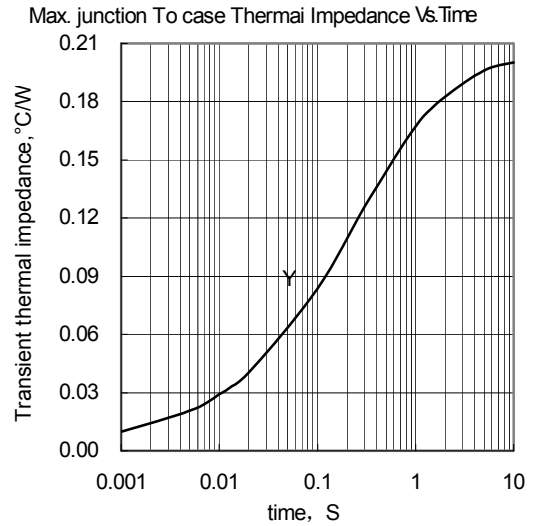


Fig.2

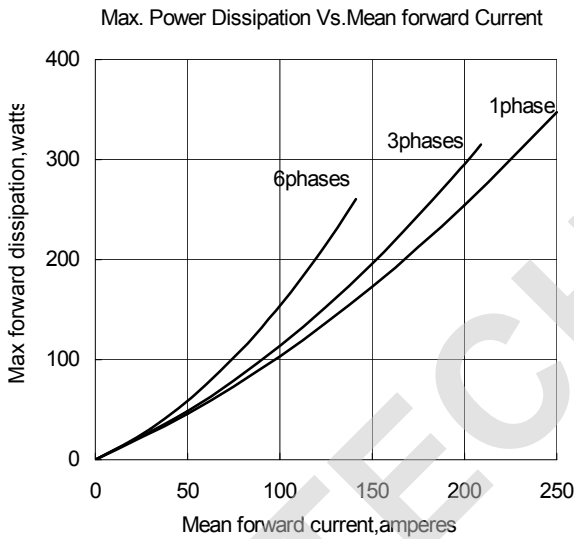


Fig.3

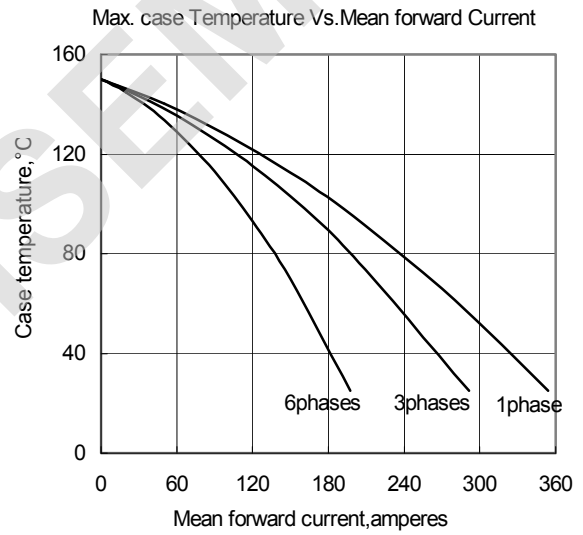


Fig.4

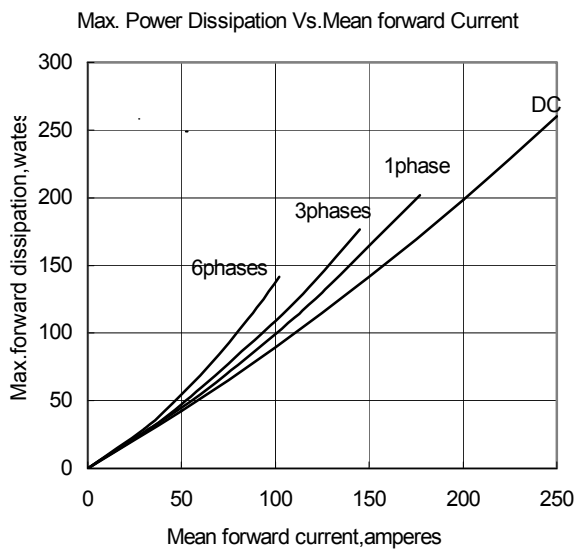


Fig.5

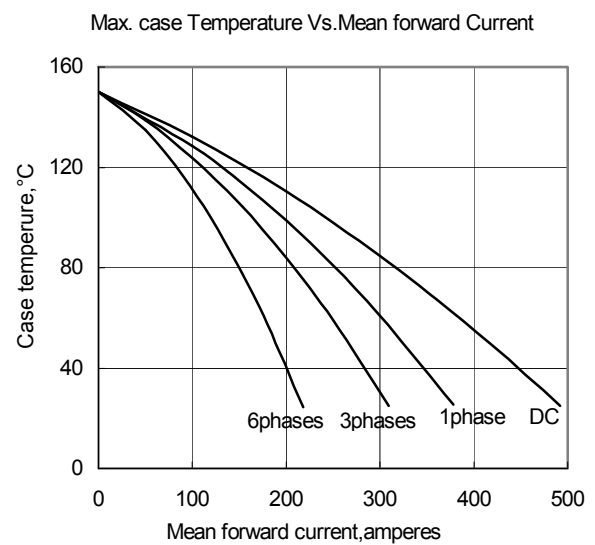


Fig.6

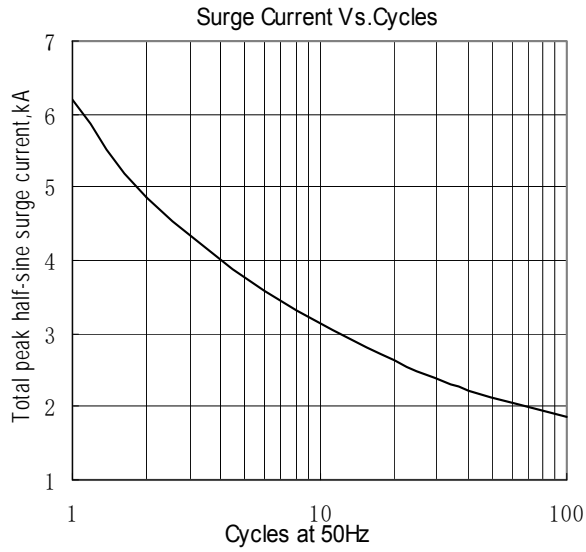


Fig.7

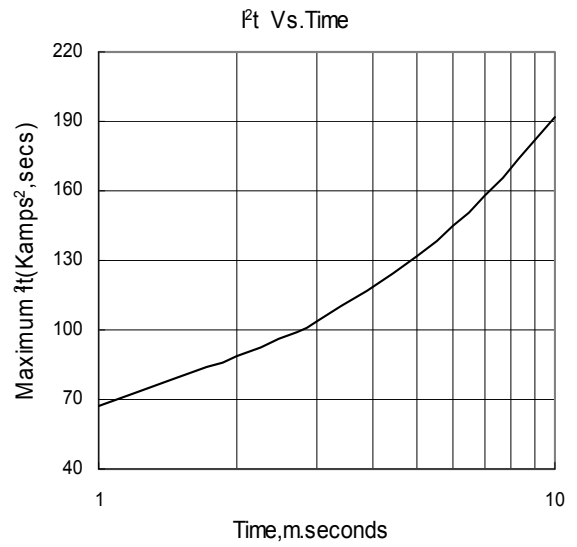
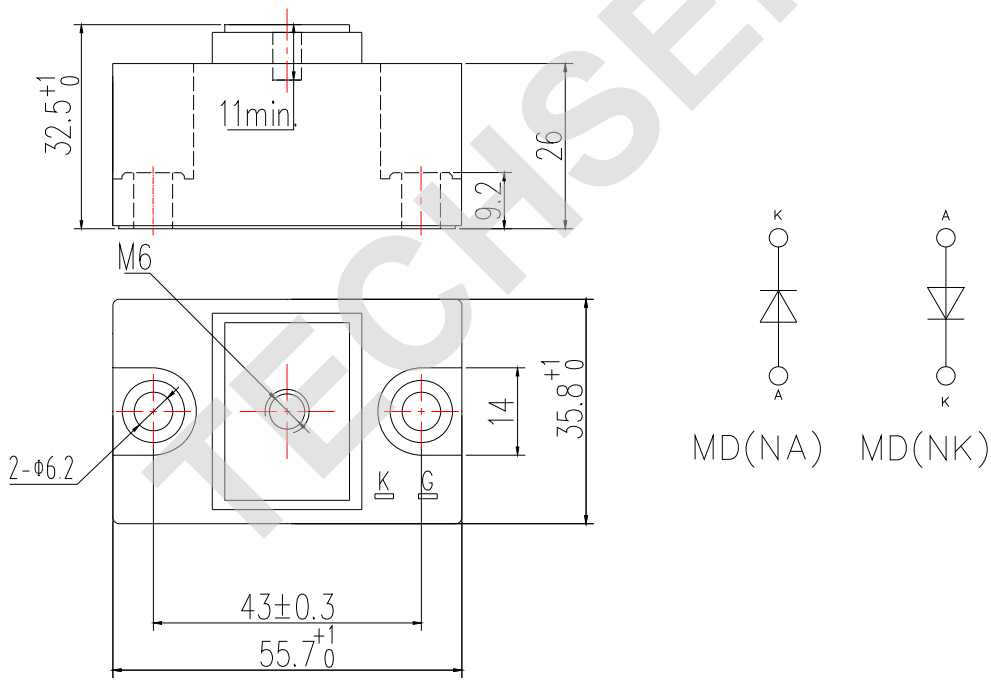


Fig.8

Outline:



Unmarked dimensional tolerance: ±0.5mm