



Features :

- Isolated mounting base 4000V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

| V _{RSM} | V _{RRM} | Type & Outline |
|------------------|------------------|-----------------|
| 2700V | 2600V | MDx160-26-216F3 |
| 2900V | 2800V | MDx160-28-216F3 |
| 3100V | 3000V | MDx160-30-216F3 |
| 3300V | 3200V | MDx160-32-216F3 |
| 3500V | 3400V | MDx160-34-216F3 |
| 3700V | 3600V | MDx160-36-216F3 |

| 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 | | | 160 | A |
| I _{F(RMS)} | RMS forward current | | 150 | | | 251 | A |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 150 | | | 20 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave V _R =0.6V _{RRM} | 150 | | | 3.9 | kA |
| I ² t | I ² t for fusing coordination | | | | | 76 | A ² s*10 ³ |
| V _{FO} | Threshold voltage | | 150 | | | 0.95 | V |
| r _F | Forward slope resistance | | | | | 0.90 | mΩ |
| V _{FM} | Peak forward voltage | I _{FM} =480A | 25 | | | 1.98 | V |
| R _{th(j-c)} | Thermal resistance Junction to case | At 180° sine Single side cooled | | | | 0.23 | °C /W |
| R _{th(c-h)} | Thermal resistance case to heatsink | At 180° sine Single side cooled | | | | 0.08 | °C /W |
| V _{iso} | Isolation voltage | 50Hz,R.M.S,t=1min,I _{iso} :1mA(max) | | 4000 | | | V |
| F _m | Terminal connection torque(M6) | | | | 6 | | N·m |
| | Mounting torque(M6) | | | | 6 | | N·m |
| T _{stg} | Stored temperature | | | -40 | | 125 | °C |
| W _t | Weight | | | | 320 | | g |
| Outline | 216F3 | | | | | | |

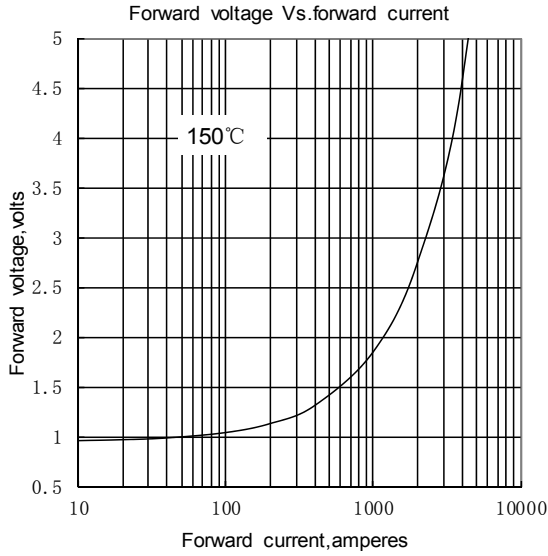


Fig.1

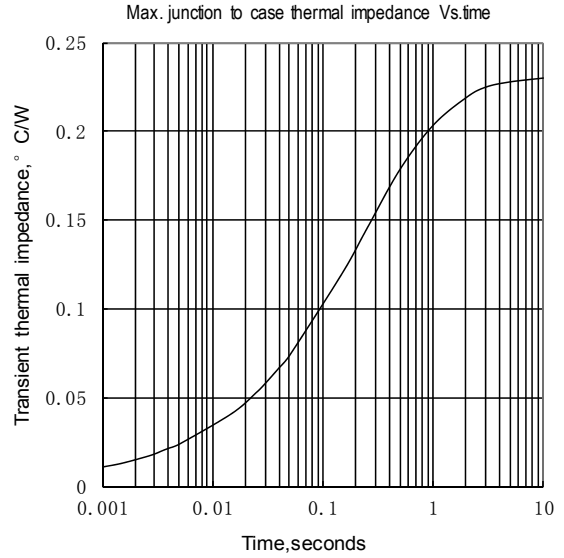


Fig.2

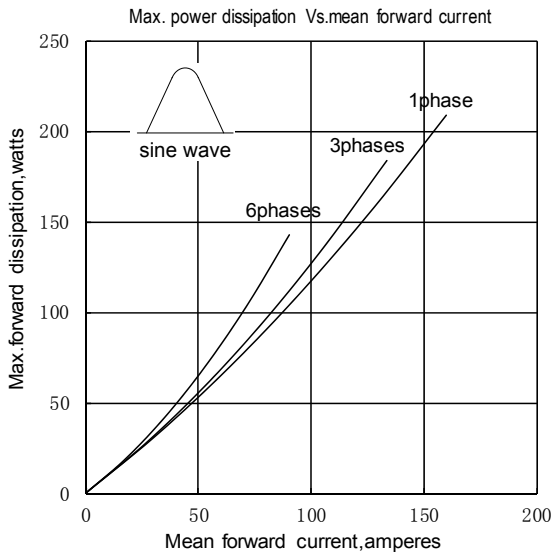


Fig.3

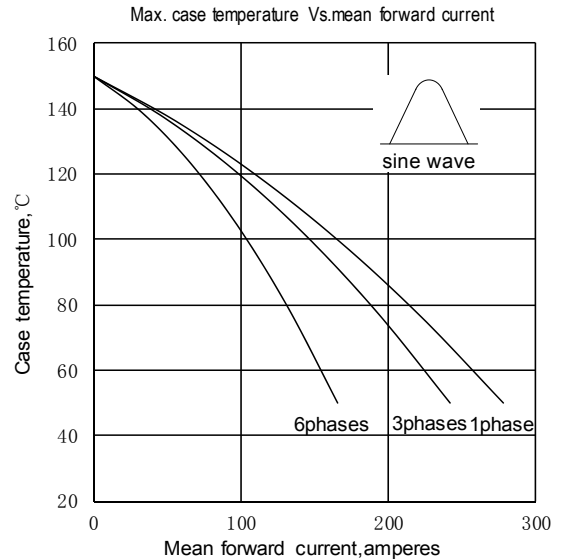


Fig.4

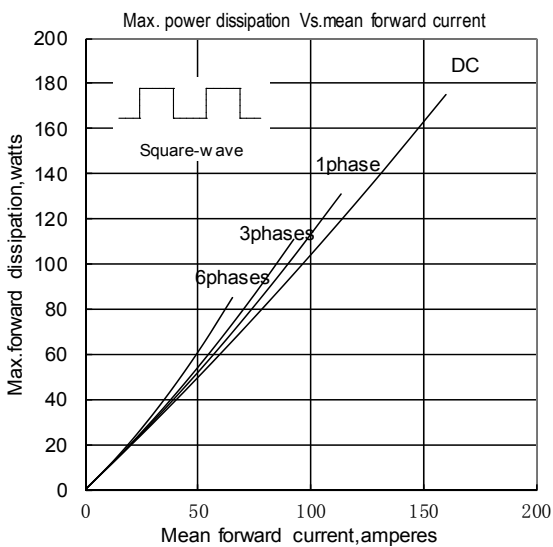


Fig.5

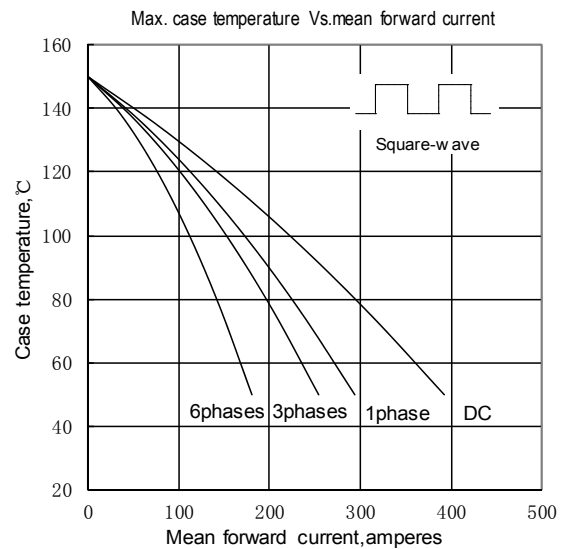


Fig.6

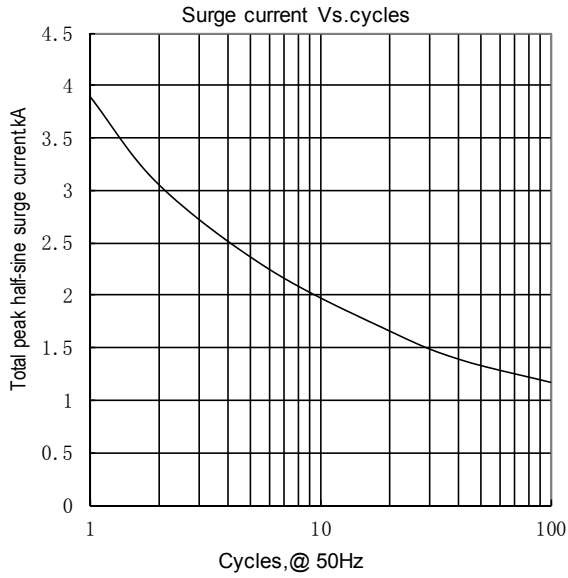


Fig.7

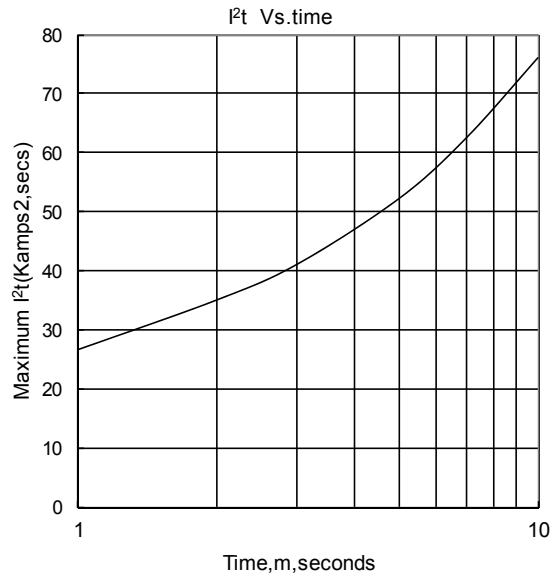
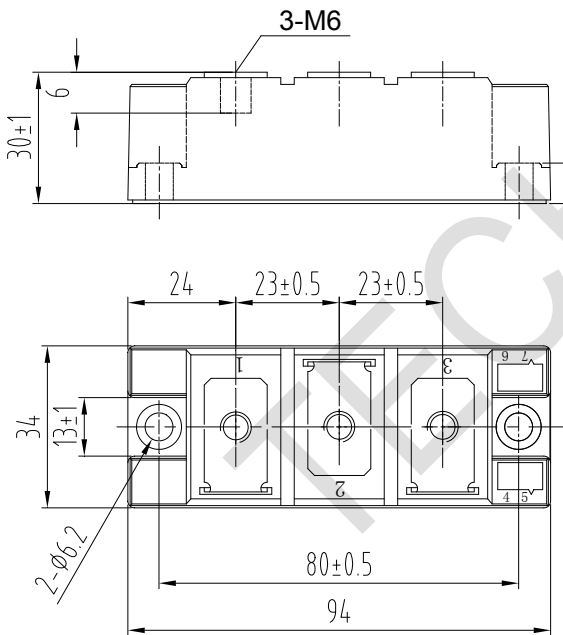
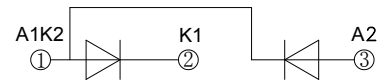


Fig.8

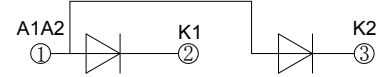
Outline:



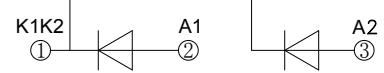
MDC



MDA



MDK



MD

