

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} | |
|------------------|------------------|-----------|
| 2700V | 2600V | Mx400D260 |
| 2900V | 2800V | Mx400D280 |
| 3100V | 3000V | Mx400D300 |
| 3300V | 3200V | Mx400D320 |
| 3500V | 3400V | Mx400D340 |
| 3700V | 3600V | Mx400D360 |

| 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 | | | 400 | A |
| I _{F(RMS)} | RMS forward current | | | | | 628 | A |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 150 | | | 50 | mA |
| I _{FSM} | Surge forward current | V _R =60%V _{RRM} ,t=10ms half sine, | 150 | | | 13 | kA |
| I ² t | I ² t for fusing coordination | | | | | 845 | 10 ³ A ² s |
| V _{FO} | Threshold voltage | | 150 | | | 0.95 | V |
| r _F | Forward slope resistance | | | | | 0.72 | mΩ |
| V _{FM} | Peak forward voltage | I _{FM} =1200A | 25 | | | 1.82 | V |
| R _{th(j-c)} | Thermal resistance Junction to case | D.C. Single side cooled per chip | | | | 0.075 | °C/W |
| R _{th(c-h)} | Thermal resistance case to heatsink | D.C. Single side cooled per chip | | | | 0.024 | °C/W |
| V _{iso} | Isolation voltage | 50Hz,R.M.S,t=1min,I _{iso} :1mA(MAX) | | 4000 | | | V |
| F _m | Terminal connection torque(M10) | | | 10 | | 12 | 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 | | | | 1540 | | g |
| Outline | M06 | | | | | | |

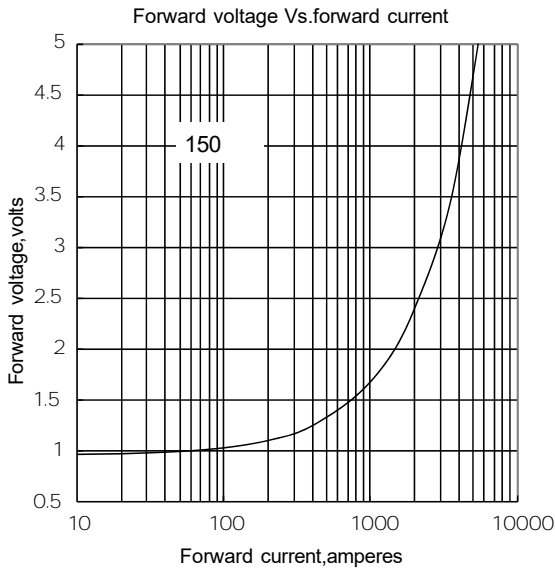


Fig.1

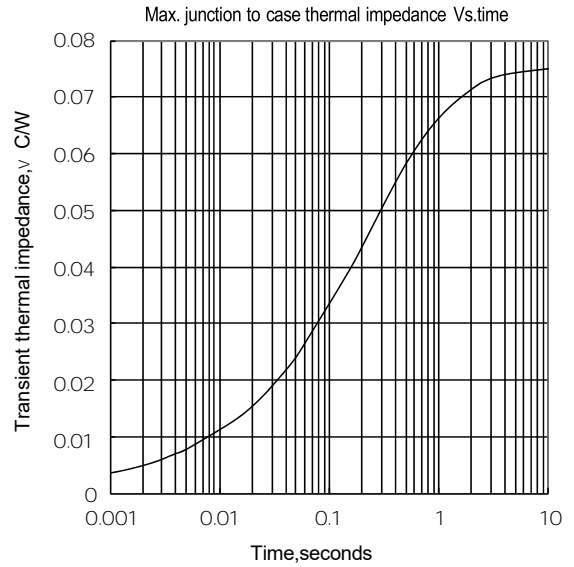


Fig.2

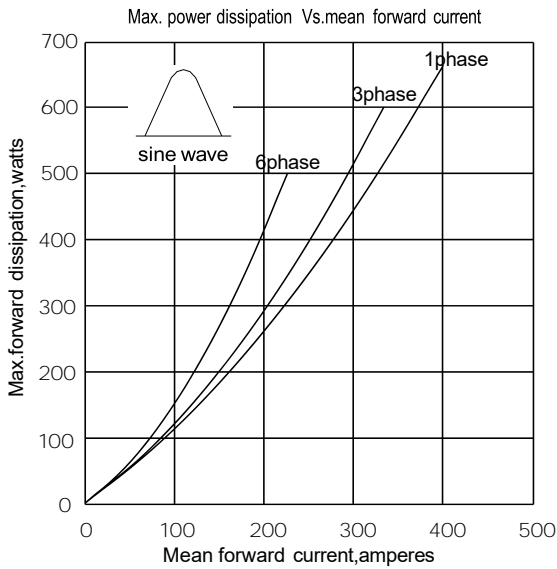


Fig.3

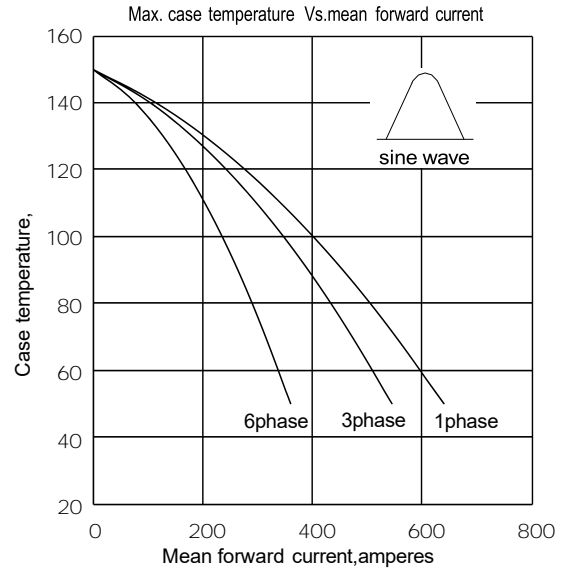


Fig.4

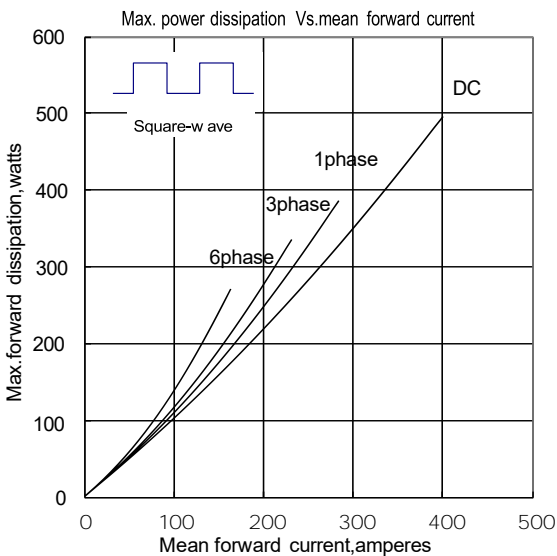


Fig.5

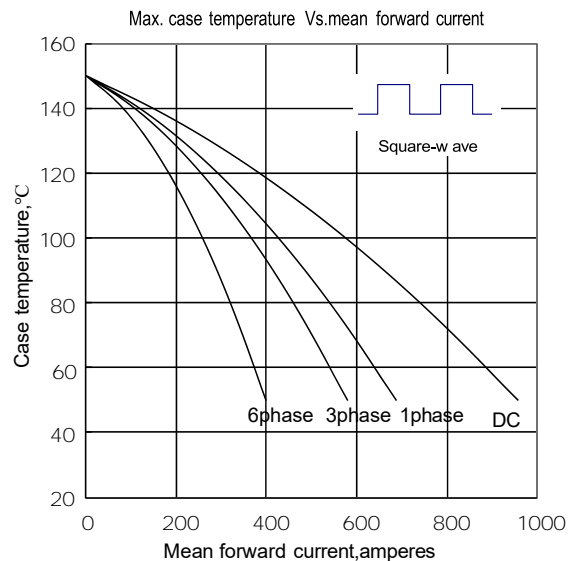


Fig.6

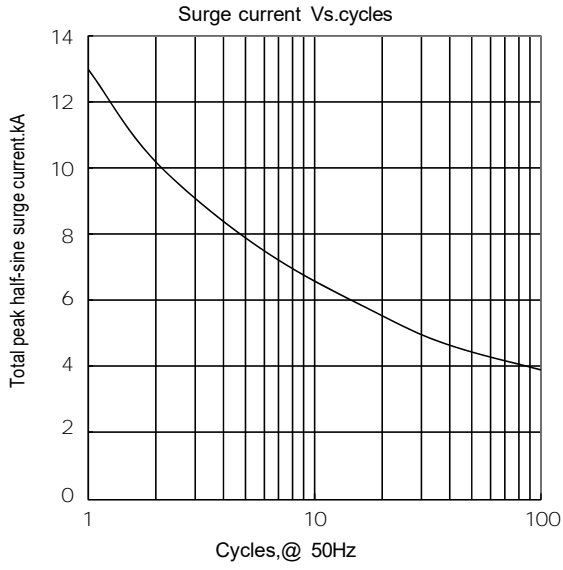
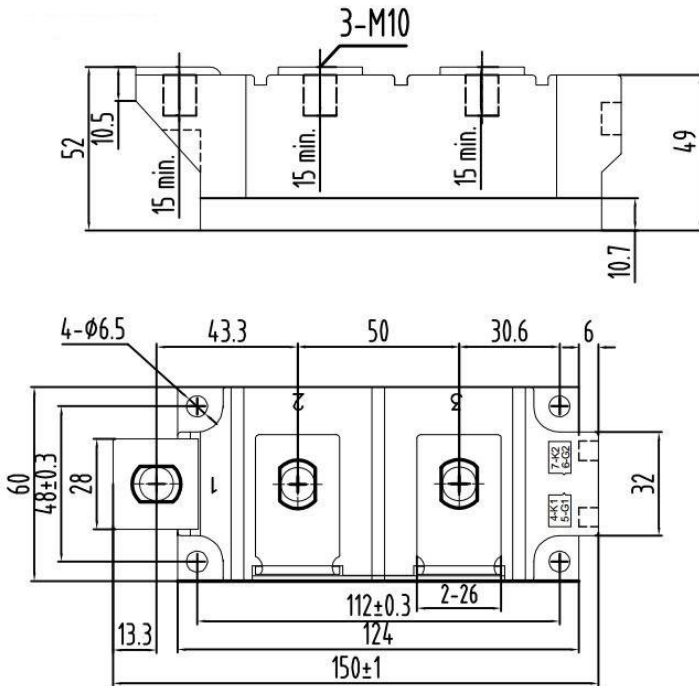


Fig.7

Outline:



Unmarked dimensional tolerance $\pm 0.5\text{mm}$

