**Features :**

- Isolated mounting base 3000V~
- Solder joint technology with increased power cycling capability
- Space and weight saving

**Typical Applications**

- Various rectifiers
- DC supply for PWM inverter

| $V_{RSM}$ | $V_{RRM}$ | 品名 |
|---|---|---|
| 900V | 800V | MD135D80S |
| 1100V | 1000V | MD135D100S |
| 1300V | 1200V | MD135D120S |
| 1500V | 1400V | MD135D140S |
| 1700V | 1600V | MD135D160S |
| 1900V | 1800V | MD135D180S |

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | $T_j$(°C) | VALUE | | | UNIT |
|---|---|---|---|---|---|---|---|
| | | | | Min. | Typ. | Max. | |
| $I_{F(AV)}$ | Mean forward current | 180° half sine wave 50Hz Single side cooled, $T_C$=100°C | 150 | | | 135 | A |
| $I_{F(RMS)}$ | RMS forward current | | | | | 212 | A |
| $I_{RRM}$ | Repetitive peak current | at $V_{RRM}$ | 150 | | | 12 | mA |
| $I_{FSM}$ | Surge forward current | 10ms half sine wave $V_R$=0.6$V_{RRM}$ | 150 | | | 3.8 | kA |
| $I^2t$ | $I^2t$ for fusing coordination | | | | | 72.2 | $A^2s*10^3$ |
| $V_{FO}$ | Threshold voltage | | 150 | | | 0.85 | V |
| $r_F$ | Forward slope resistance | | | | | 1.35 | mΩ |
| $V_{FM}$ | Peak forward voltage | $I_{FM}$=410A | 25 | | | 1.45 | V |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | D.C. Single side cooled per chip | | | | 0.22 | °C /W |
| $R_{th(c-h)}$ | Thermal resistance case to heatsink | D.C. Single side cooled per chip | | | | 0.08 | °C /W |
| $V_{iso}$ | Isolation voltage | 50Hz,R.M.S,t=1min, $I_{iso}$:1mA(max) | | 3000 | | | V |
| $F_m$ | Terminal connection torque(M6) | | | 3.5 | | 5.0 | N·m |
| | Mounting torque(M6) | | | 3.5 | | 5.0 | N·m |
| $T_{stg}$ | Stored temperature | | | -40 | | 125 | °C |
| $W_t$ | Weight | | | | 150 | | g |
| Outline | M17 | | | | | | |

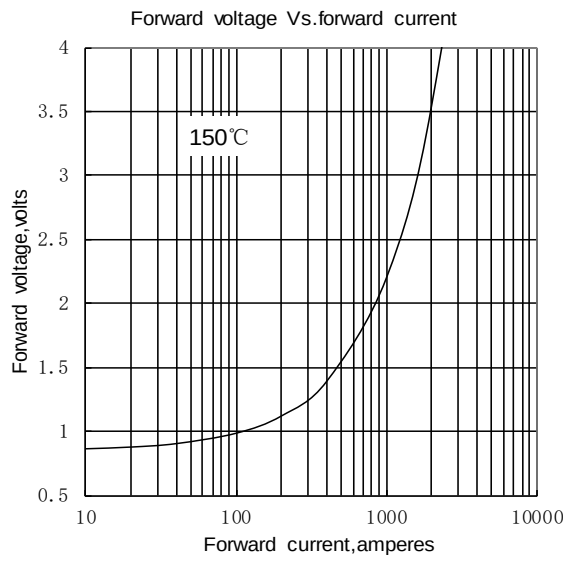



Fig1

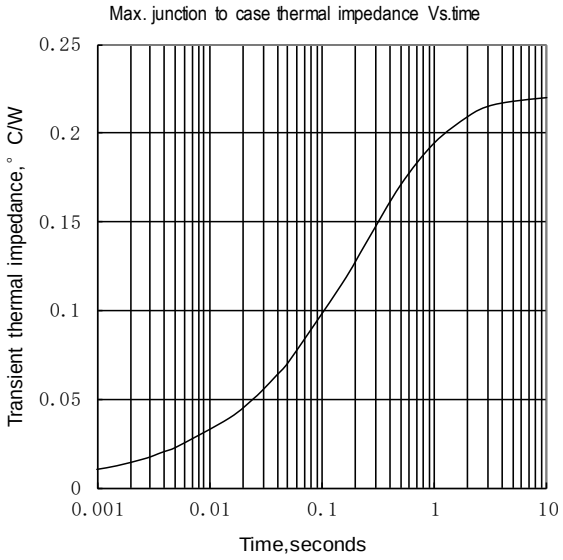



Fig2

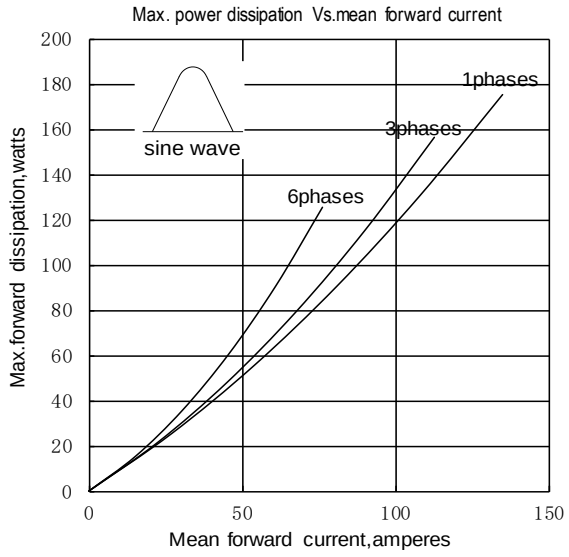



Fig3

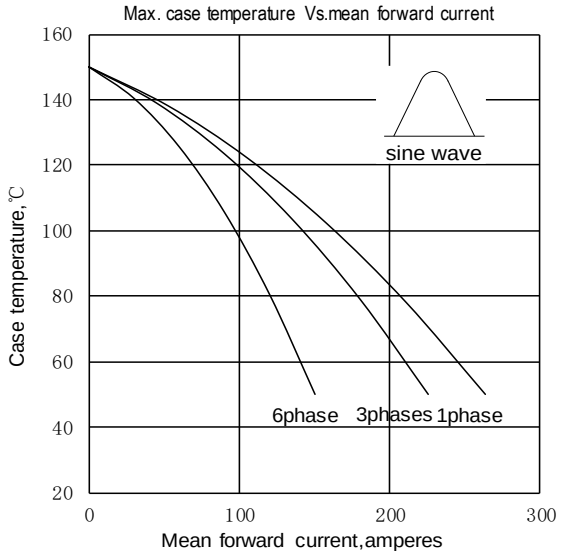



Fig4

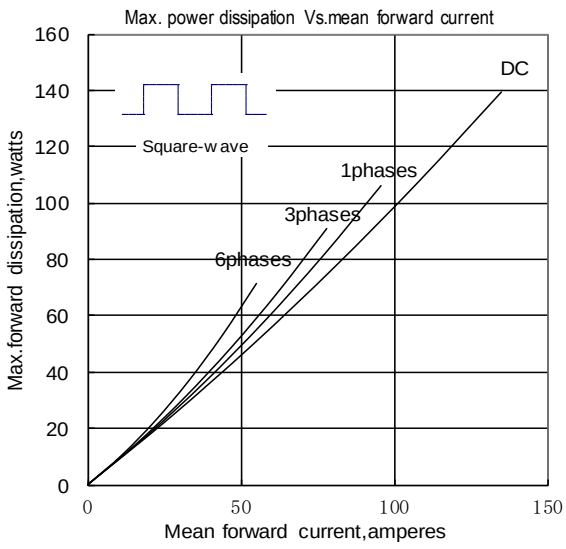



Fig5

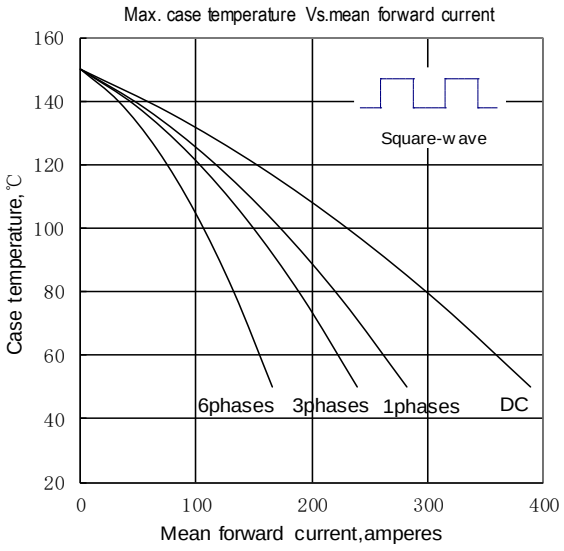



Fig6

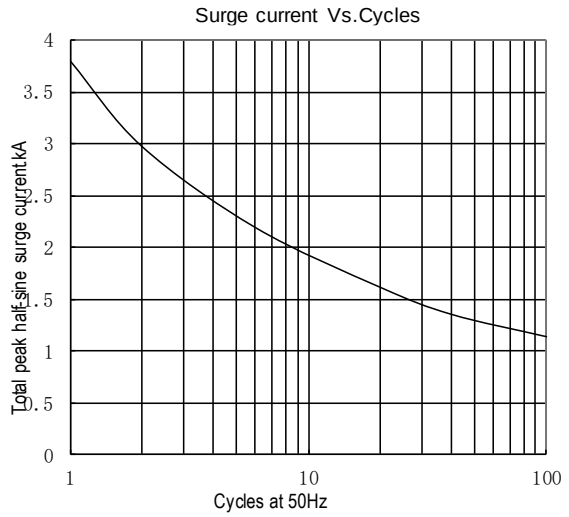
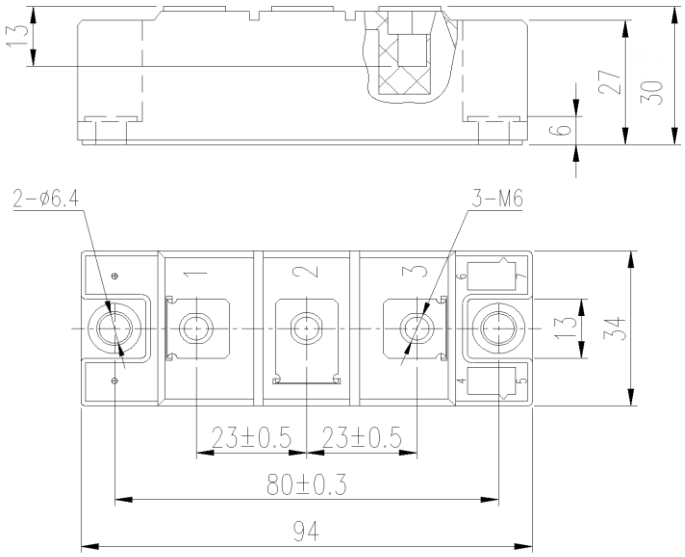
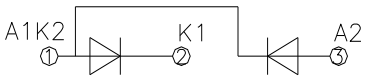



Fig.7




MD135D**S




Unmarked dimensional tolerance：±0.5mm