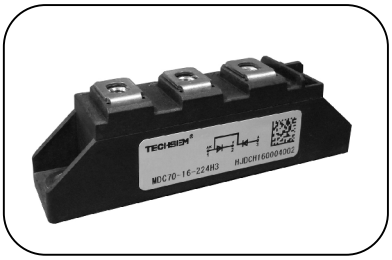


**Features：**

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

**Typical Applications：**

- **n** Various rectifiers
- **n** DC supply for PWM inverter

| $V_{RRM}$ | Type & Outline |
|---|---|
| 600V | MDC26-06-224H3 |
| 800V | MDC26-08-224H3 |
| 1000V | MDC26-10-224H3 |
| 1200V | MDC26-12-224H3 |
| 1400V | MDC26-14-224H3 |
| 1600V | MDC26-16-224H3 |
| 1800V | MDC26-18-224H3 |

| 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 | | | 26 | A |
| $I_{F(RMS)}$ | RMS forward current | | 150 | | | 41 | A |
| $I_{RRM}$ | Repetitive peak current | at $V_{RRM}$ | 150 | | | 8 | mA |
| $I_{FSM}$ | Surge forward current | 10ms half sine wave $V_R$=0.6$V_{RRM}$ | 150 | | | 1.7 | kA |
| $I^2t$ | $I^2t$ for fusing coordination | | | | | 14.5 | $A^2s*10^3$ |
| $V_{FO}$ | Threshold voltage | | 150 | | | 0.80 | V |
| $r_F$ | Forward slope resistance | | | | | 6.80 | mΩ |
| $V_{FM}$ | Peak forward voltage | $I_{FM}$=80A | 25 | | | 1.35 | V |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | Single side cooled per chip | | | | 1.35 | °C /W |
| $R_{th(c-h)}$ | Thermal resistance case to heatsink | Single side cooled per chip | | | | 0.20 | °C /W |
| $V_{iso}$ | Isolation voltage | 50Hz, R.M.S,t=1min, $I_{iso}$:1mA(max) | | 3000 | | | V |
| $F_m$ | Terminal connection torque(M5) | | | 2.5 | | 4.0 | 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 | | | | 100 | | g |
| Outline | 224H3 | | | | | | |

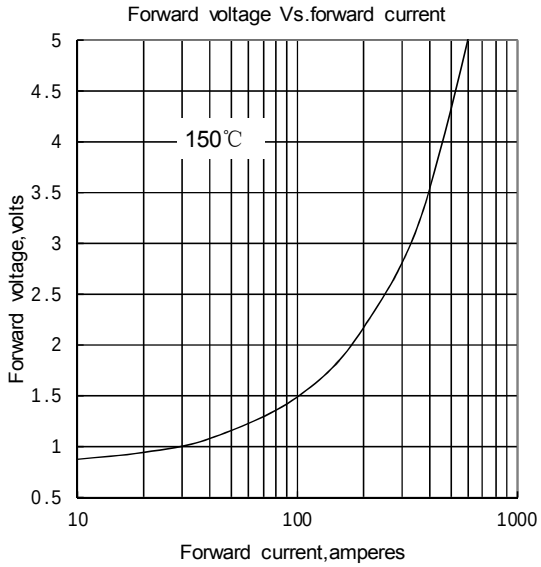



Fig.1

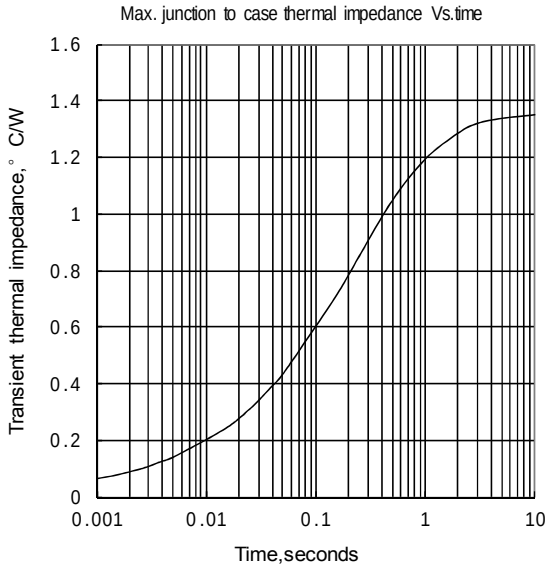



Fig.2

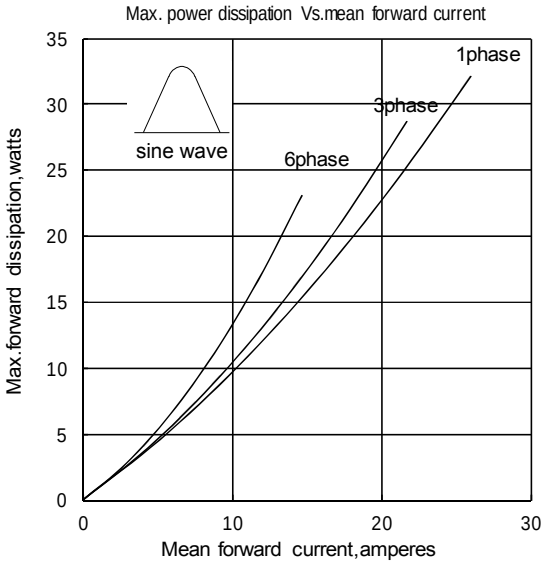



Fig.3

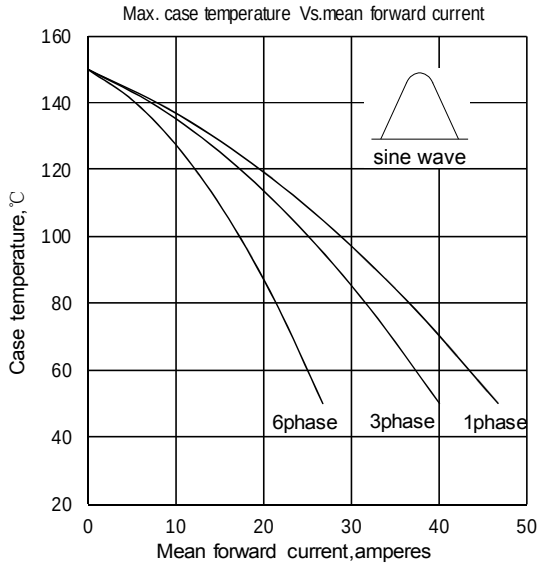



Fig.4

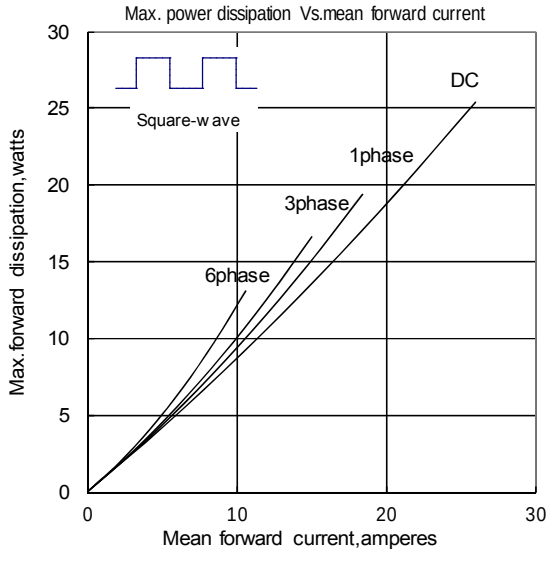



Fig.5

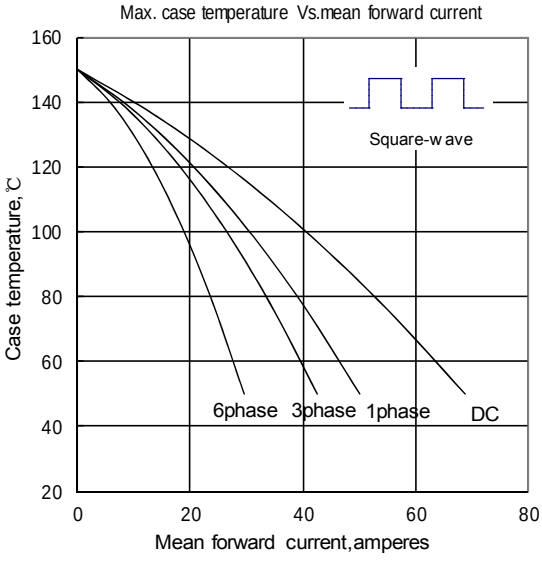



Fig.6

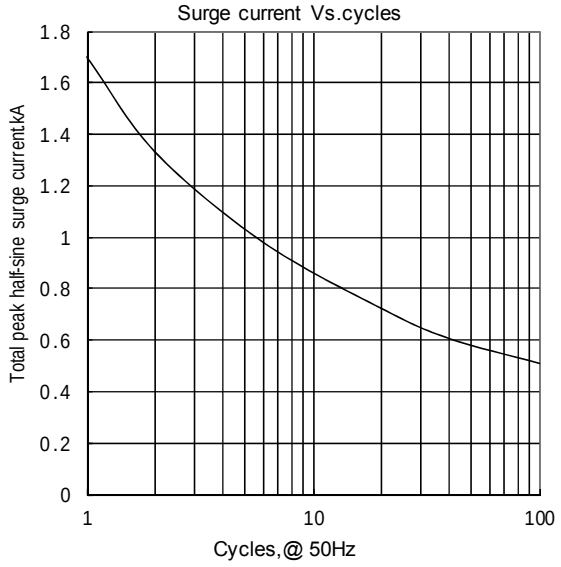



Fig.7

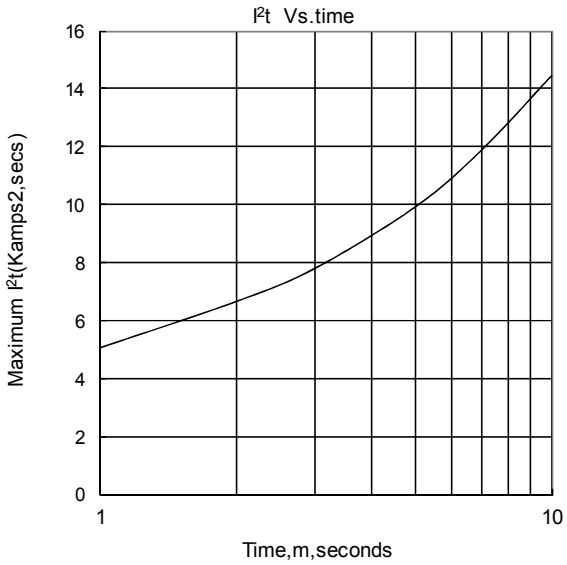
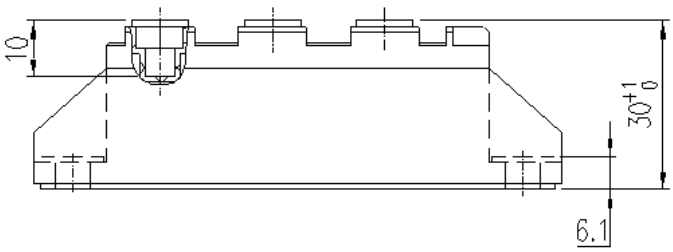
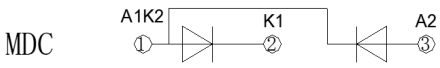
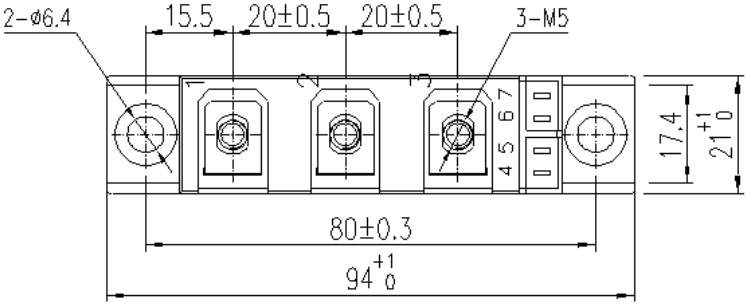



Fig.8

**Outline:**




Unmarked dimensional tolerance：±0.5mm