**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 _{R(RM)} | Repetitive peak current | at V _{RRM} | 150 | | | 8 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave V _R =0.6V _{RRM} | 150 | | | 1.7 | kA |
| I ² t | I ² t for fusing coordination | | | | | 14.5 | A ² s*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 | | | | | | |

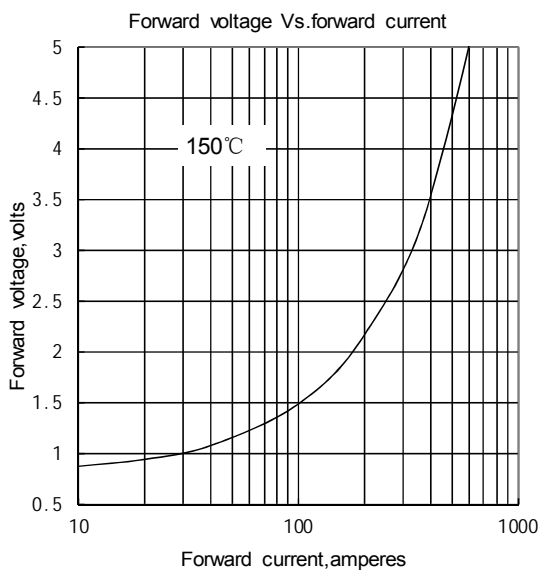


Fig.1

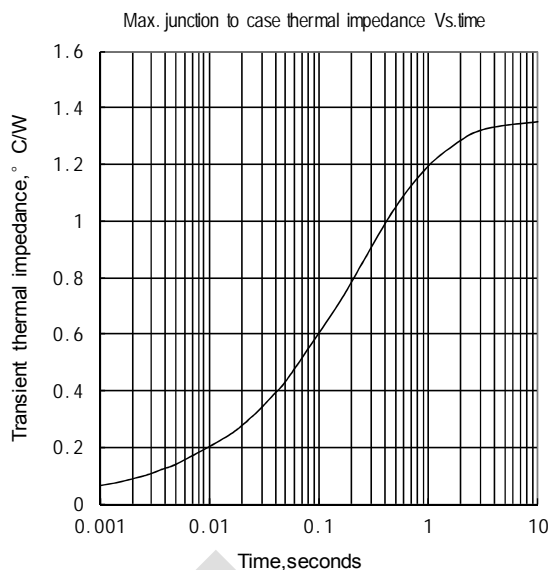


Fig.2

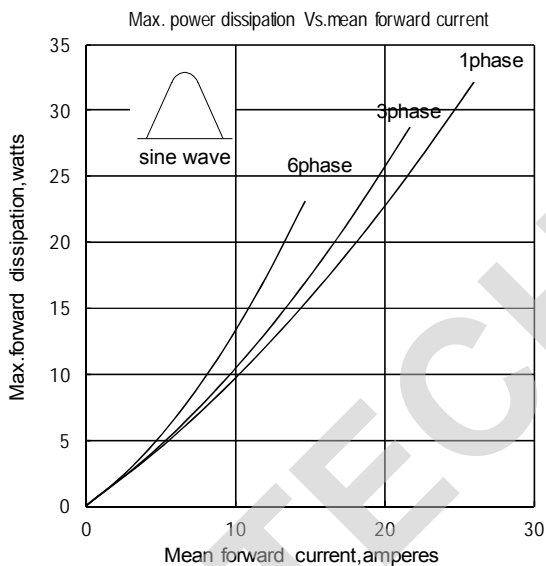


Fig.3

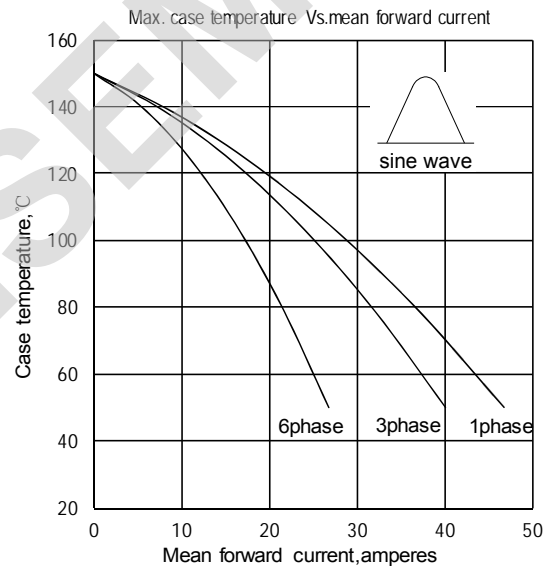


Fig.4

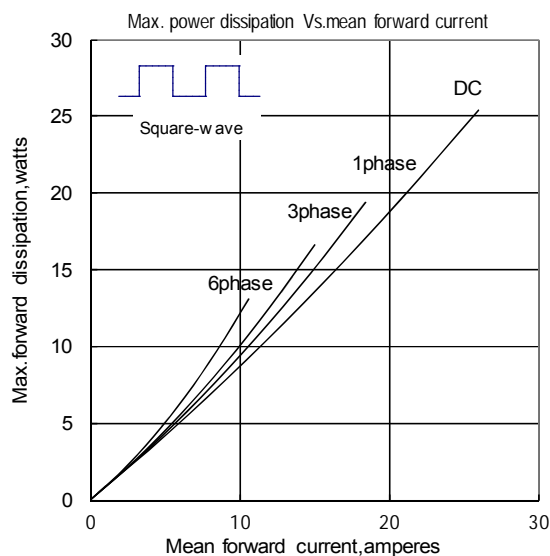


Fig.5

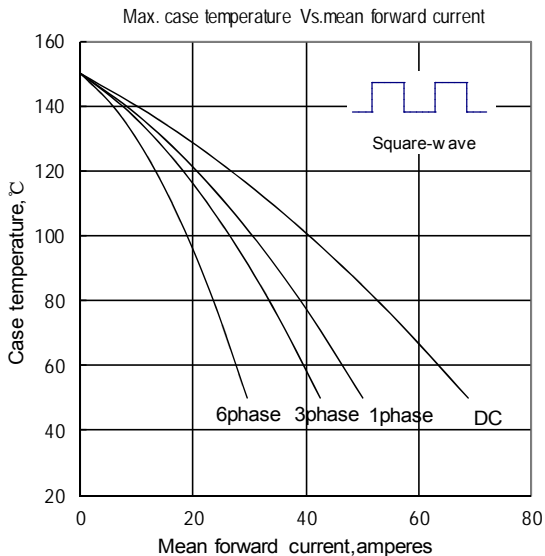


Fig.6

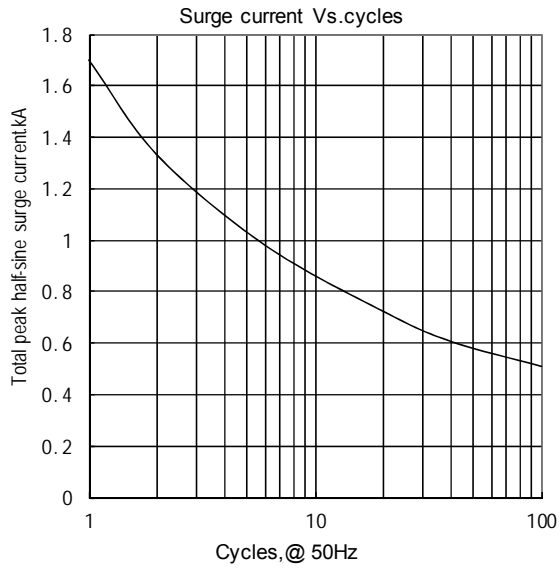


Fig.7

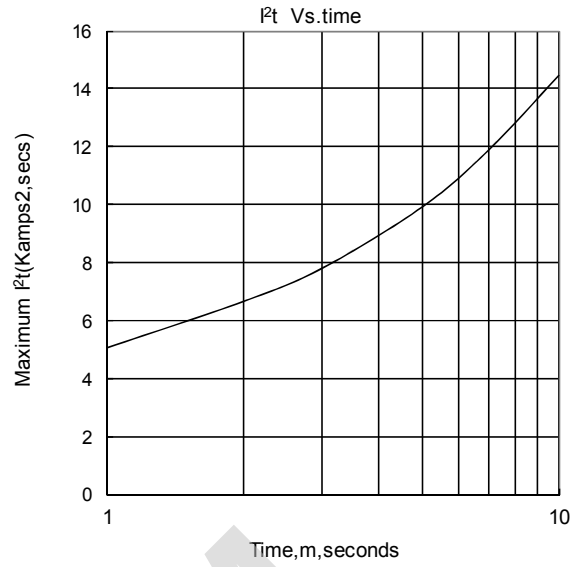
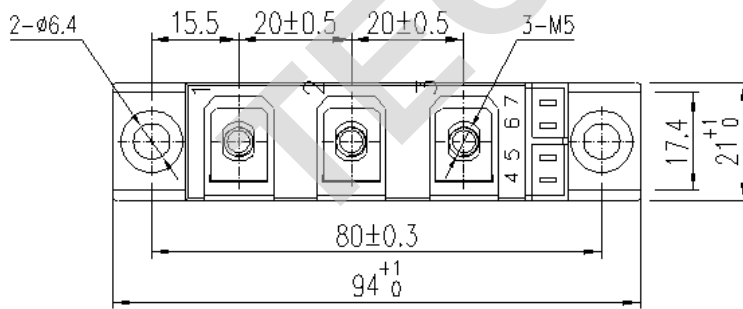
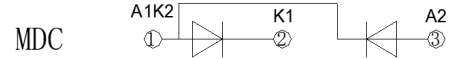
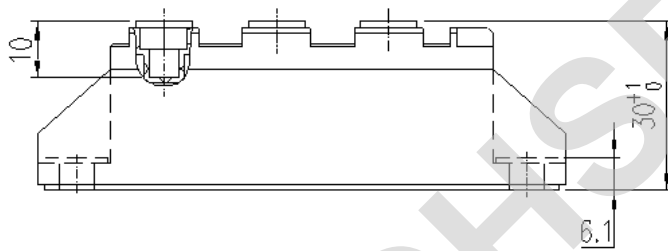


Fig.8

Outline:



Unmarked dimensional tolerance: ±0.5mm

TECHSEM reserves the right to change specifications without notice.