**Features：**

- **n** Isolated mounting base 2500V~
- **n** Solder joint technology with Increased power cycling capability
- **n** Space and weight saving

**Typical Applications**

- **n** Inverter
- **n** Inductive heating
- **n** Chopper

| $V_{RRM}$ | Type & Outline |
|---|---|
| 600V | MDS200-06-234H5 |
| 800V | MDS200-08-234H5 |
| 1000V | MDS200-10-234H5 |
| 1200V | MDS200-12-234H5 |
| 1400V | MDS200-14-234H5 |
| 1600V | MDS200-16-234H5 |
| 1800V | MDS200-18-234H5 |

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | $T_j$(°C) | VALUE | | | UNIT |
|---|---|---|---|---|---|---|---|
| | | | | Min | Type | Max | |
| $I_O$ | DC output current | Three-phase full wave rectifying circuit, $T_C$=100°C | 150 | | | 200 | A |
| $I_{RRM}$ | Repetitive peak current | at $V_{RRM}$ | 150 | | | 12 | mA |
| $I_{FSM}$ | Surge forward current | 10ms half sine wave $V_R$=0 | 150 | | | 1.5 | kA |
| $I^2t$ | $I^2t$ for fusing coordination | | | | | 11.25 | $10^3A^2s$ |
| $V_{FO}$ | Threshold voltage | | 150 | | | 0.75 | V |
| $r_F$ | Forward slope resistance | | | | | 2.0 | mW |
| $V_{FM}$ | Peak forward voltage | $I_{FM}$=200A | 25 | | | 1.50 | V |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | Single side cooled, per total | | | | 0.10 | °C /W |
| $R_{th(c-h)}$ | Thermal resistance case to heatsink | Single side cooled, per total | | | | 0.07 | °C /W |
| $V_{iso}$ | Isolation voltage | 50Hz,R.M.S,t=1min,$I_{iso}$:1mA(max) | | 2500 | | | V |
| $F_m$ | Terminal connection torque(M6) | | | 4.5 | | 6.0 | 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 | | | | 240 | | g |
| Outline | 234H5 | | | | | | |

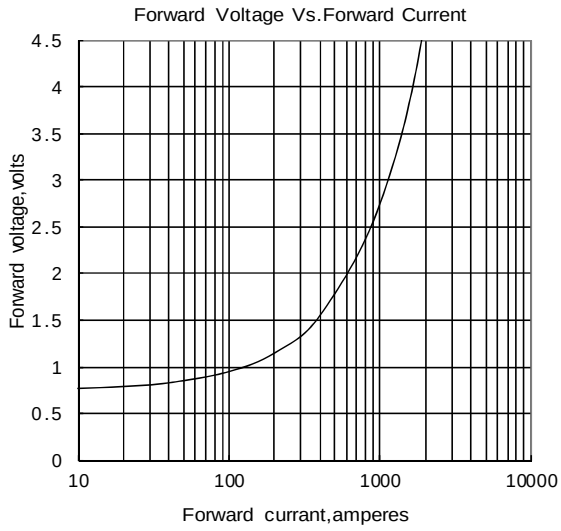



Fig.1

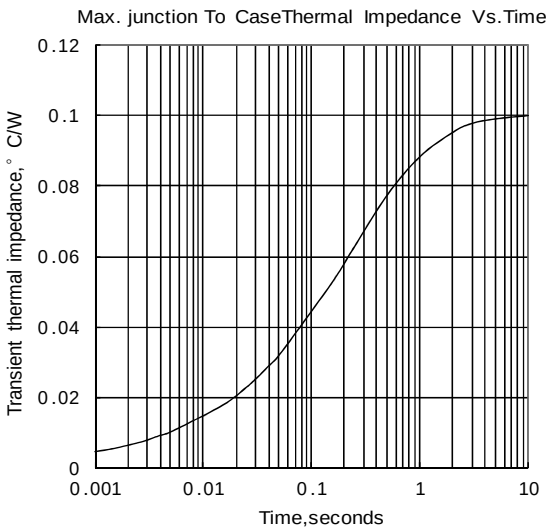



Fig.2

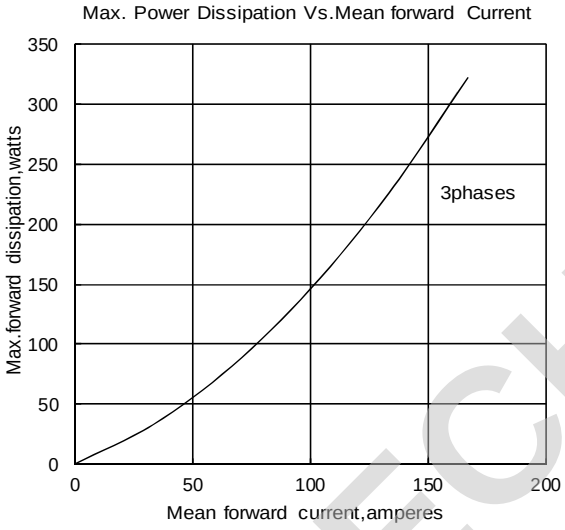



Fig.3

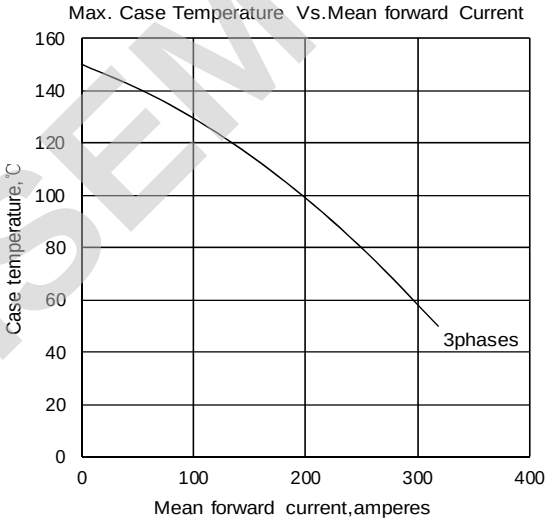



Fig.4

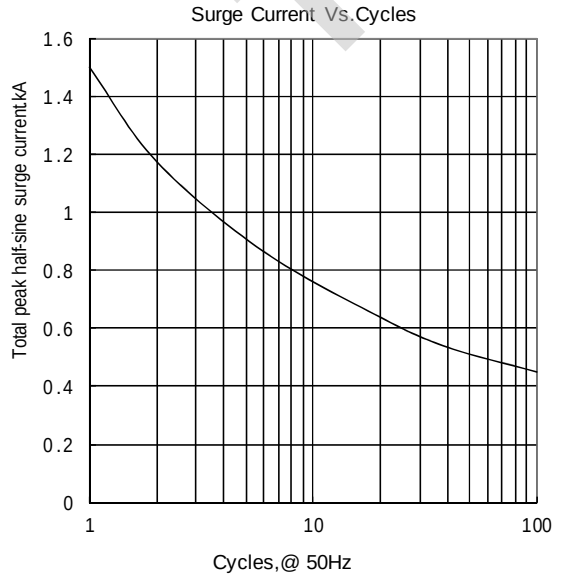



Fig.5

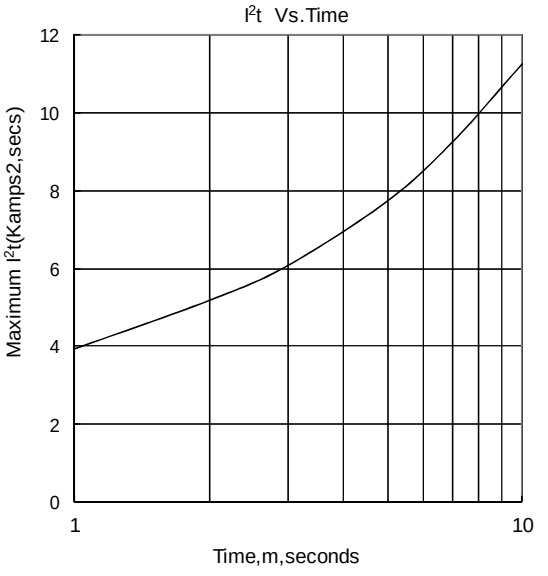
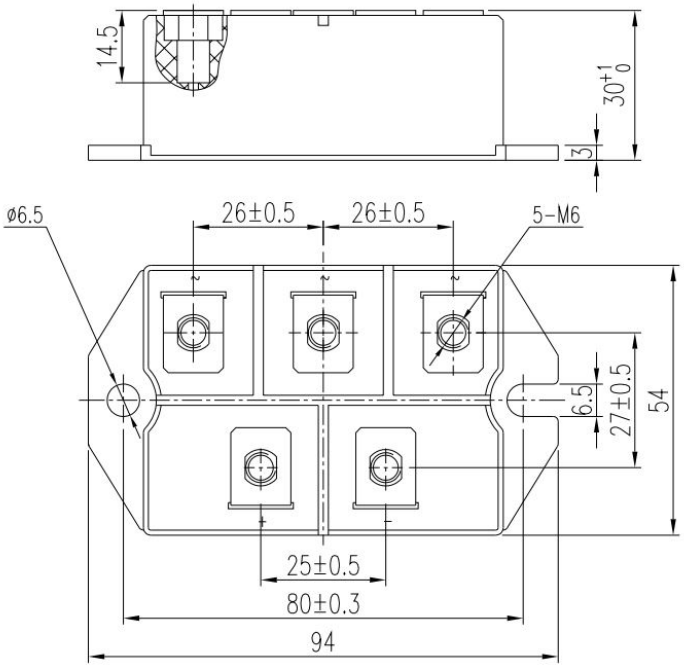
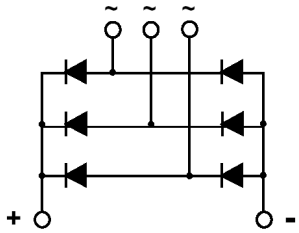



Fig.6

**Outline:**




Unmarked dimensional tolerance：±0.5mm

TECHSEM reserves the right to change specifications without notice.