

Features :

- Isolated mounting base 3000V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

Typical Applications

- AC/DC Motor drives
- DC supply for PWM inverter

| V_{RSM} | V_{RRM} | Type |
|-----------|-----------|-----------|
| 2100V | 2000V | Mx250D200 |
| 2300V | 2200V | Mx250D220 |
| 2600V | 2500V | Mx250D250 |

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | $T_j(^{\circ}C)$ | VALUE | | | UNIT |
|----------------|--|--|------------------|-------|------|------|-------------------|
| | | | | Min | Type | Max | |
| $I_{F(AV)}$ | Mean forward current | 180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$ | 150 | | | 250 | A |
| $I_{F(RMS)}$ | RMS forward current | | 150 | | | 393 | A |
| I_{RRM} | Repetitive peak current | at V_{RRM} | 150 | | | 20 | mA |
| I_{FSM} | Surge forward current | 10ms half sine wave $V_R=0.6V_{RRM}$ | 150 | | | 9.0 | kA |
| I^2t | I^2t for fusing coordination | | | | | 405 | $A^2s \cdot 10^3$ |
| V_{FO} | Threshold voltage | | 150 | | | 0.85 | V |
| r_F | Forward slope resistance | | | | | 0.70 | m Ω |
| V_{FM} | Peak forward voltage | $I_{FM}=750A$ | 25 | | | 1.43 | V |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | At 180° sine Single side cooled per chip | | | | 0.13 | $^{\circ}C / W$ |
| $R_{th(c-h)}$ | Thermal resistance case to heatsink | At 180° sine Single side cooled per chip | | | | 0.04 | $^{\circ}C / W$ |
| V_{iso} | Isolation voltage | 50Hz, R.M.S, t=1min, $I_{iso}: 1mA(max)$ | | 3000 | | | V |
| F_m | Terminal connection torque(M8) | | | | 12.0 | | N·m |
| | Mounting torque(M6) | | | | 6.0 | | N·m |
| T_{vj} | Junction temperature | | | -40 | | 150 | $^{\circ}C$ |
| T_{stg} | Stored temperature | | | -40 | | 125 | $^{\circ}C$ |
| W_t | Weight | | | | 810 | | g |
| Outline | M03 | | | | | | |

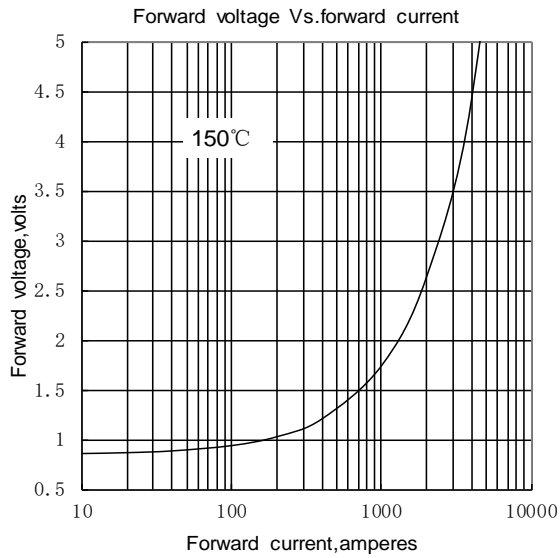


Fig.1

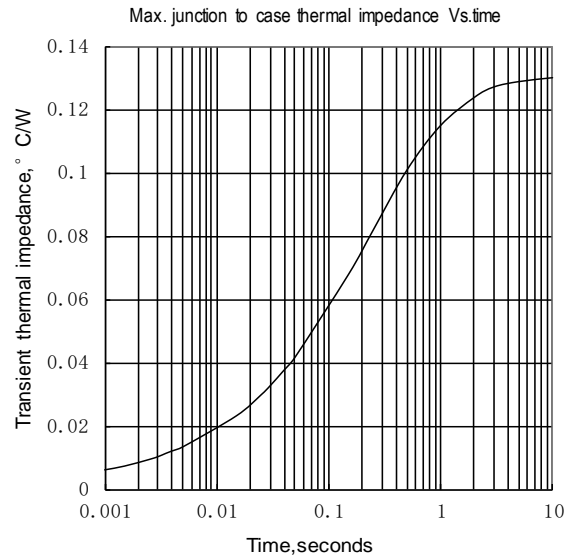


Fig.2

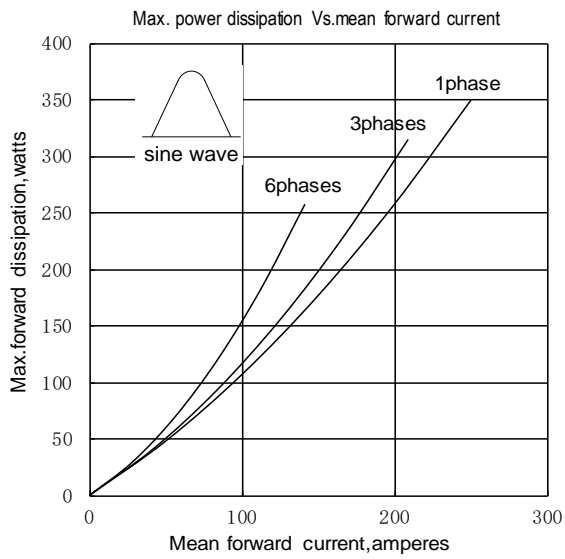


Fig.3

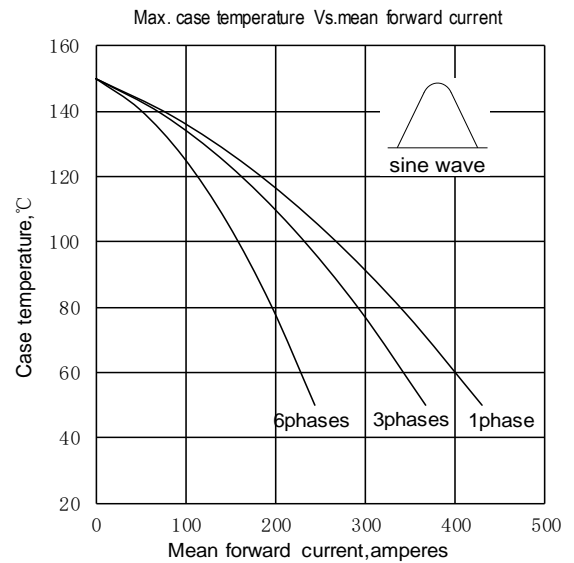


Fig.4

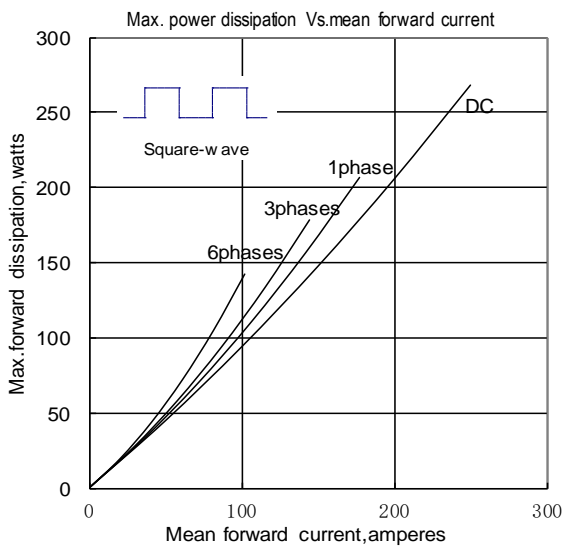


Fig.5

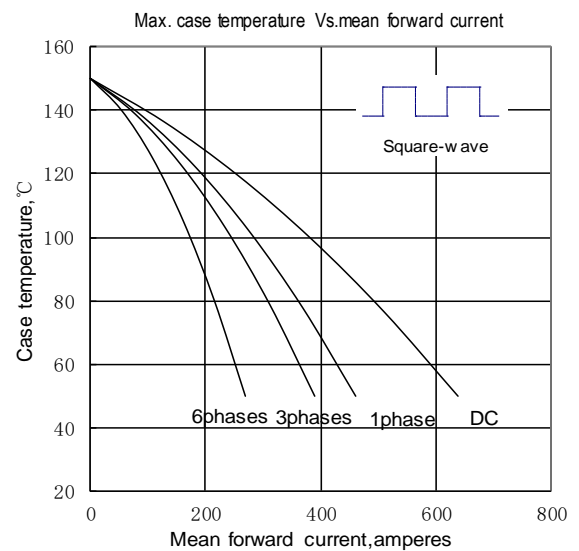


Fig.6

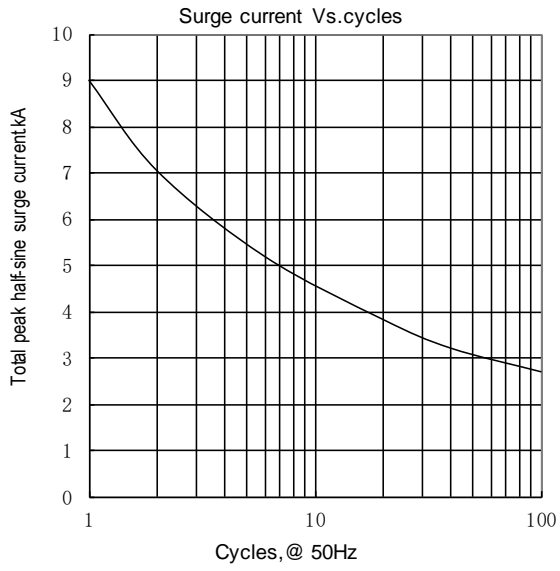


Fig.7

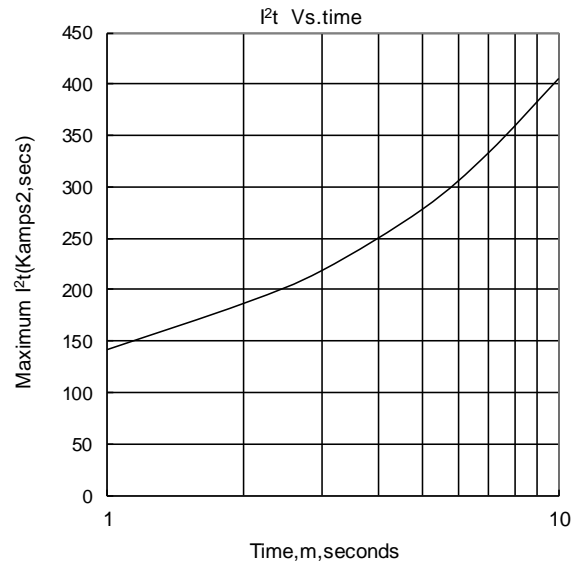


Fig.8

Outline:

