

Features :

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

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

| V _{RSM} | V _{RRM} | Type & Outline |
|------------------|------------------|-----------------|
| 2100V | 2000V | MDx800-20-410F3 |
| 2300V | 2200V | MDx800-22-410F3 |
| 2600V | 2500V | MDx800-25-410F3 |

| 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 | | | 800 | A |
| I _{F(RMS)} | RMS forward current | | 150 | | | 1256 | A |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 150 | | | 45 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave | 150 | | | 20 | kA |
| I ² t | I ² t for fusing coordination | V _R =0.6V _{RRM} | | | | 2000 | A ² s*10 ³ |
| V _{FO} | Threshold voltage | | 150 | | | 0.70 | V |
| r _F | Forward slope resistance | | | | | 0.20 | mΩ |
| V _{FM} | Peak forward voltage | I _{FM} =2400A | 25 | | | 1.83 | V |
| R _{th(j-c)} | Thermal resistance Junction to case | At 180° sine Single side cooled per chip | | | | 0.058 | °C /W |
| R _{th(c-h)} | Thermal resistance case to heatsink | At 180° sine Single side cooled per chip | | | | 0.024 | °C /W |
| V _{iso} | Isolation voltage | 50Hz,R.M.S,t=1min,I _{iso} :1mA(max) | | 3000 | | | V |
| F _m | Terminal connection torque(M12) | | | | 14.0 | | N·m |
| | Mounting torque(M8) | | | | 12.0 | | N·m |
| T _{stg} | Stored temperature | | | -40 | | 125 | °C |
| W _t | Weight | | | | 3240 | | g |
| Outline | 410F3 | | | | | | |

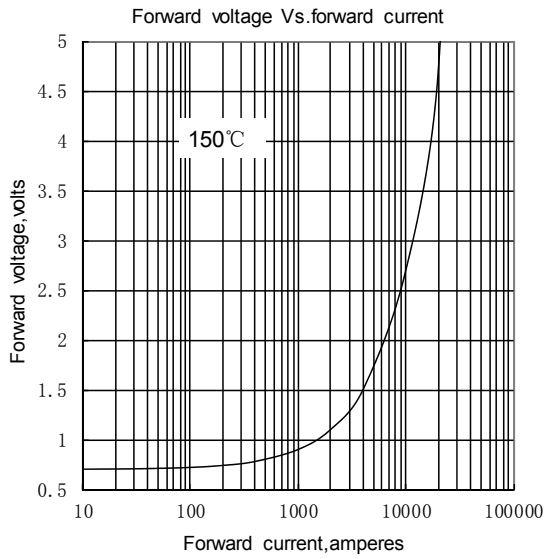


Fig.1

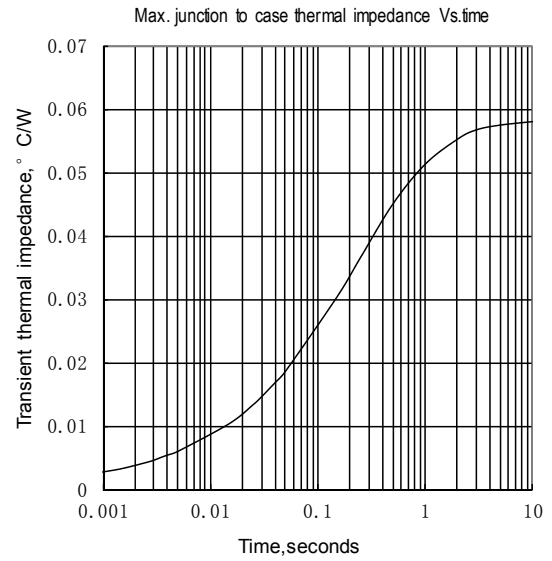


Fig.2

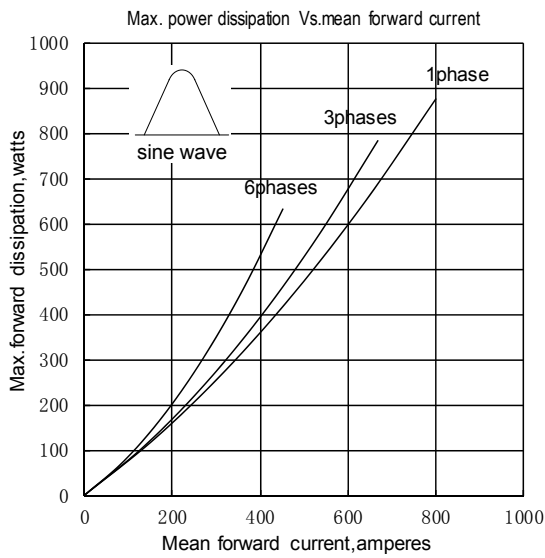


Fig.3

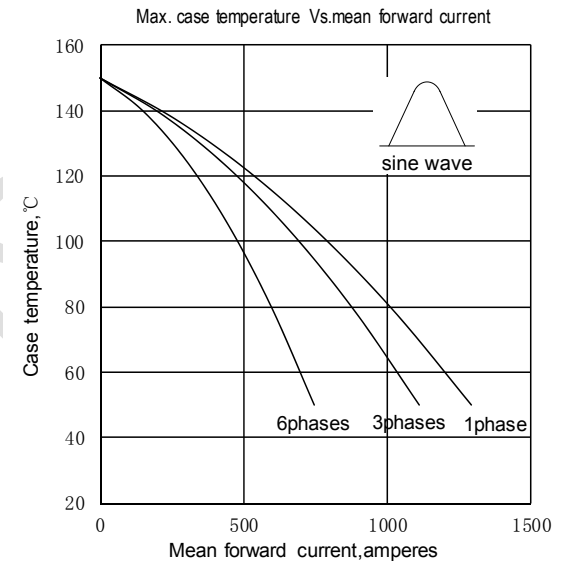


Fig.4

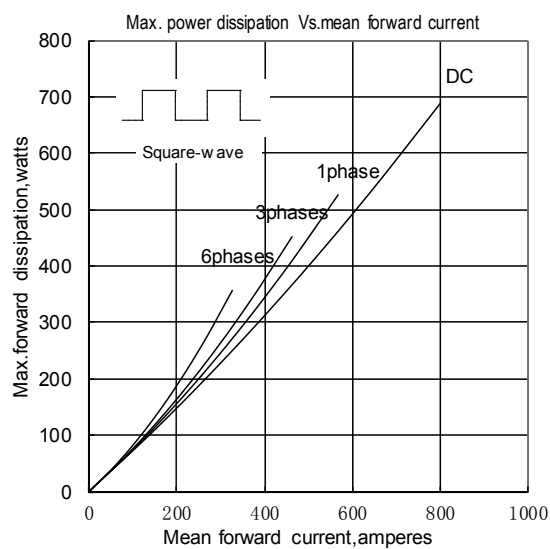


Fig.5

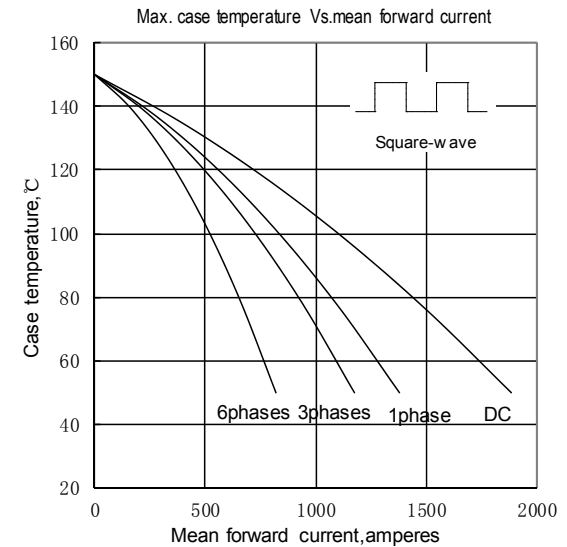


Fig.6

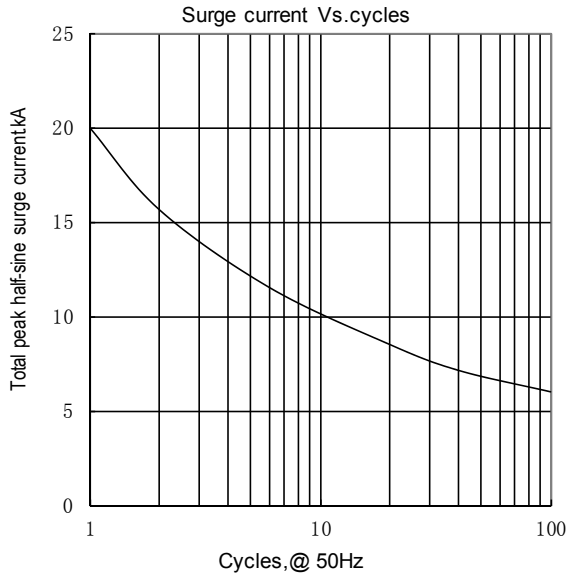


Fig.7

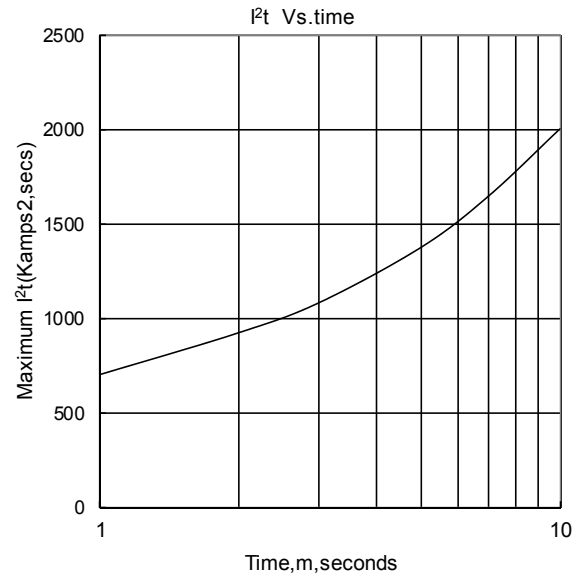


Fig.8

Outline:

