

Features:

- Isolated mounting base 2500V~
- Pressure contact technology with
Increased power cycling capability
- Space and weight savings

Typical Applications

- Inverter
- Inductive heating
- Chopper

| | |
|-------------|--|
| $I_{F(AV)}$ | 75 A |
| V_{RRM} | 600~1600 V |
| I_{FSM} | 2.0 A × 10³ |
| I^2t | 20 A² S × 10³ |



| 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 | 140 | | | 75 | A |
| $I_{F(RMS)}$ | RMS forward current | | 140 | | | 118 | A |
| V_{RRM} | Repetitive peak reverse voltage | V_{RRM} tp=10ms $V_{RSM} = V_{RRM} + 100V$ | 140 | 600 | | 1600 | V |
| I_{RRM} | Repetitive peak current | at V_{RRM} | 140 | | | 20 | mA |
| I_{FSM} | Surge forward current | 10ms half sine wave | 140 | | | 2.0 | KA |
| I^2t | I^2T for fusing coordination | $V_R = 0.6V_{RRM}$ | | | | 20 | A ² S × 10 ³ |
| V_{FO} | Threshold voltage | | 140 | | | 0.80 | V |
| r_F | Forward slop resistance | | | | | 4.25 | mΩ |
| V_{FM} | Peak forward voltage | $I_{FM} = 225A$ | 25 | | | 2.00 | V |
| t_{rr} | Reverse recovery time | $I_{FM} = 75A, tp = 1000\mu s,$ $-di/dt = 20A/\mu s,$ $V_R = 50V$ | 140 | | 1.5 | | μs |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | · Single side cooled | | | | 0.310 | °C /W |
| $R_{th(c-h)}$ | Thermal resistance case to heatsink | · Single side cooled | | | | 0.08 | °C /W |
| F_m | Terminal connection torque(M6) | | | | 6 | | N·m |
| | Mounting torque(M6) | | | | 6 | | N·m |
| T_{stg} | Stored temperature | | | -40 | | 125 | °C |
| W_t | Weight | | | | 860 | | g |
| Outline | 413F3 | | | | | | |

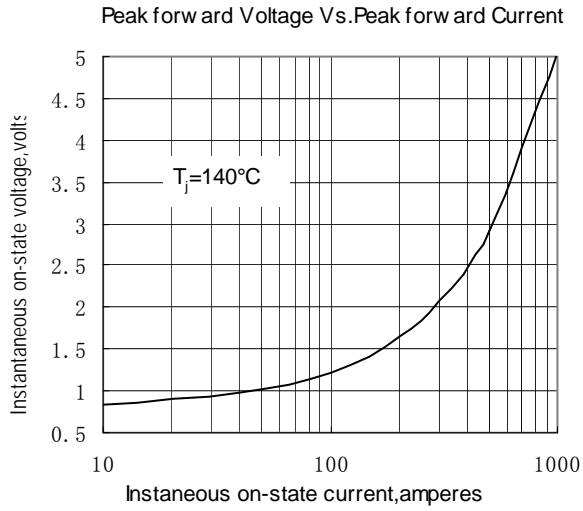


Fig.1

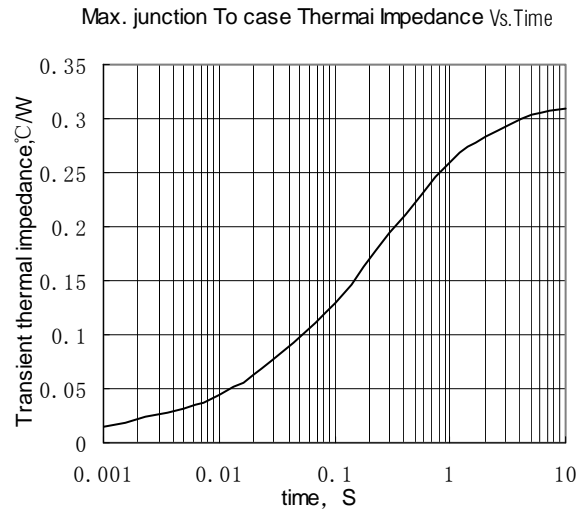


Fig.2

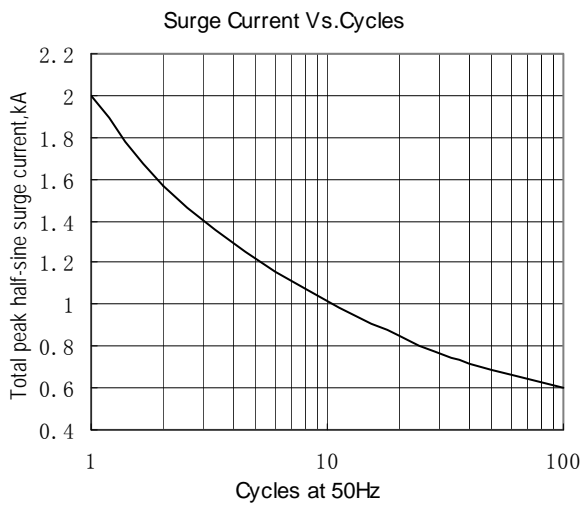


Fig.3

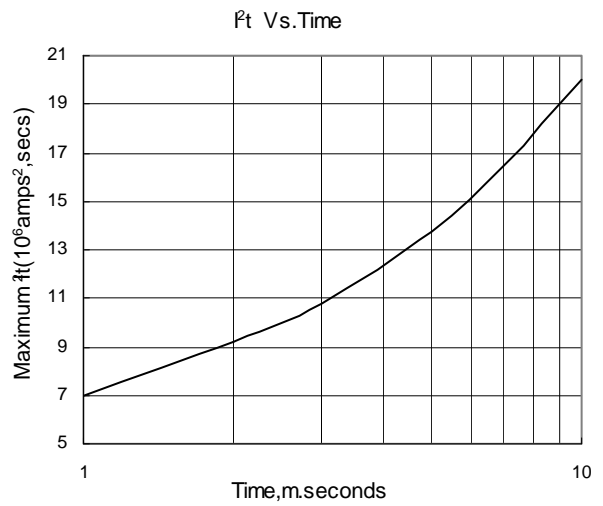
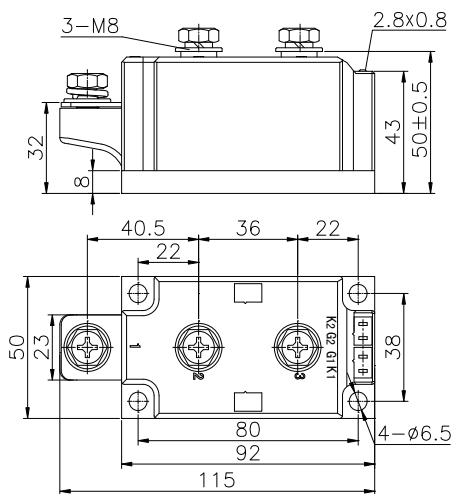


Fig.4

Outline:



413F3

