

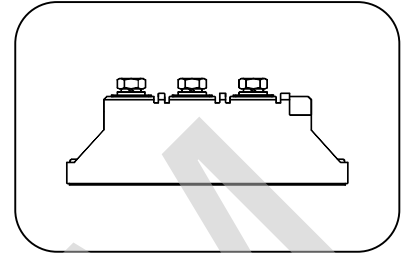
Features:

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

Typical Applications

- n AC/DC Motor drives
- n Various rectifiers
- n DC supply for PWM inverter

$I_{F(AV)}$ 110A
 V_{RRM} 600~1800V
 I_{FSM} $2.6A \times 10^3$
 I^2t $34.4A^2 S \cdot 10^3$



| 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 | | | 110 | A |
| $I_{F(RMS)}$ | RMS forward current | | 150 | | | 173 | A |
| V_{RRM} | Repetitive peak reverse voltage | $V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+200V$ | 150 | 600 | | 1800 | V |
| I_{RRM} | Repetitive peak current | at V_{RRM} | 150 | | | 8 | mA |
| I_{FSM} | Surge forward current | 10ms half sine wave | 150 | | | 2.60 | KA |
| I^2t | I^2T for fusing coordination | $V_R=0.6V_{RRM}$ | | | | | 34.4 |
| V_{FO} | Threshold voltage | | 150 | | | 0.80 | V |
| r_F | Forward slop resistance | | | | | | 1.74 |
| V_{FM} | Peak forward voltage | $I_{FM}=330A$ | 25 | | | 1.45 | V |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | At 180° sine: Single side cooled | | | | 0.350 | $^{\circ}C/W$ |
| $R_{th(c-h)}$ | Thermal resistance case to heat sink | At 180° sine: Single side cooled | | | | 0.15 | $^{\circ}C/W$ |
| V_{iso} | Isolation voltage | 50Hz, R.M.S, $t=1min$, $I_{iso}:1mA(max)$ | | 2500 | | | V |
| F_m | Terminal connection torque (M5) | | | | | 4 | N·m |
| | Mounting torque (M6) | | | | | 6 | N·m |
| T_{stg} | Stored temperature | | | -40 | | 125 | $^{\circ}C$ |
| W_t | Weight | | | | | 160 | g |
| Outline | 217F3/223F3 | | | | | | |

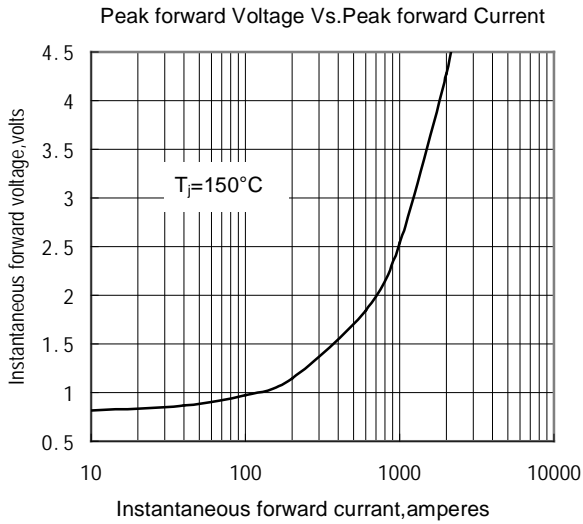


Fig.1

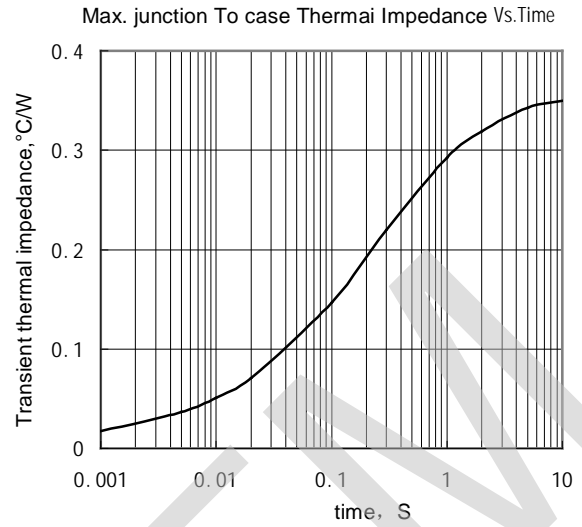


Fig.2

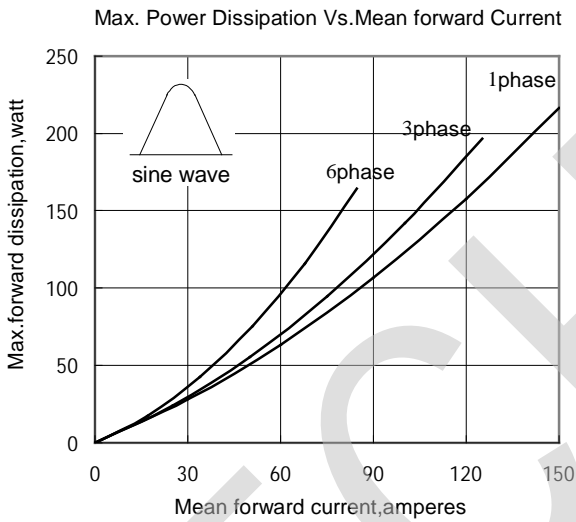


Fig.3

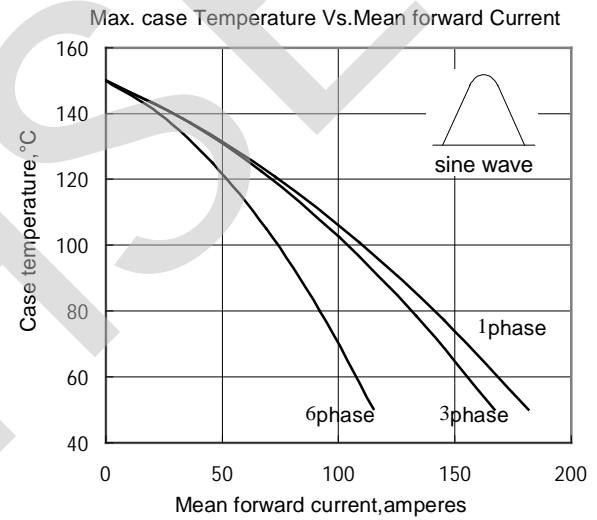


Fig.4

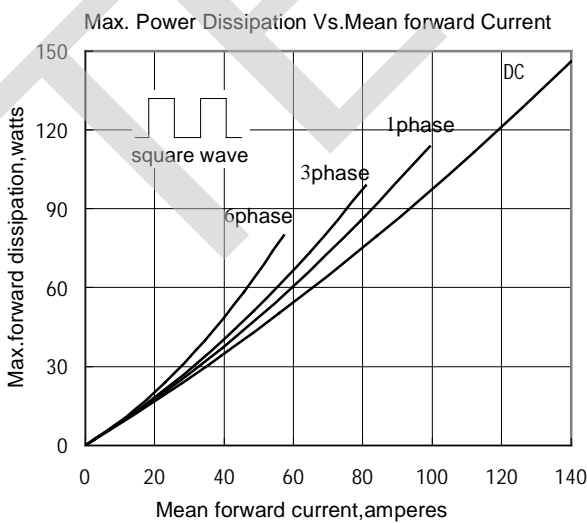


Fig.5

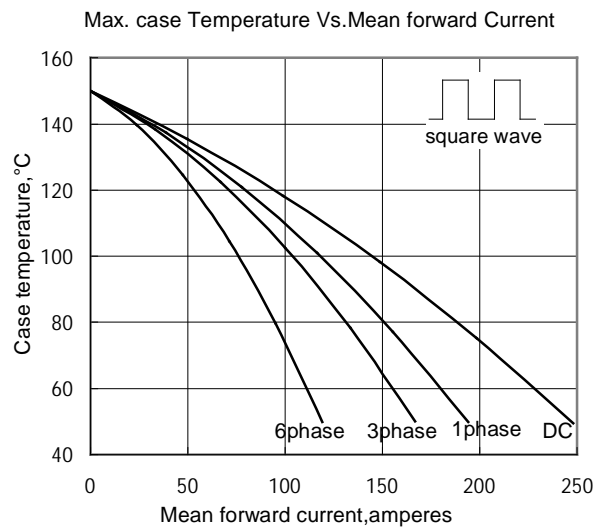


Fig.6

Surge Current Vs.Cycles

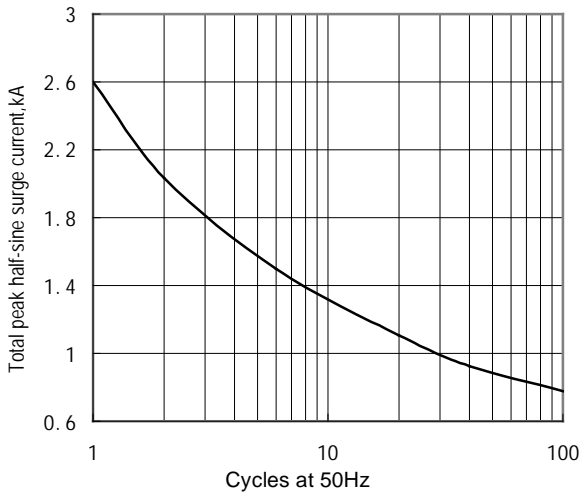


Fig.7

I^2t Vs.Time

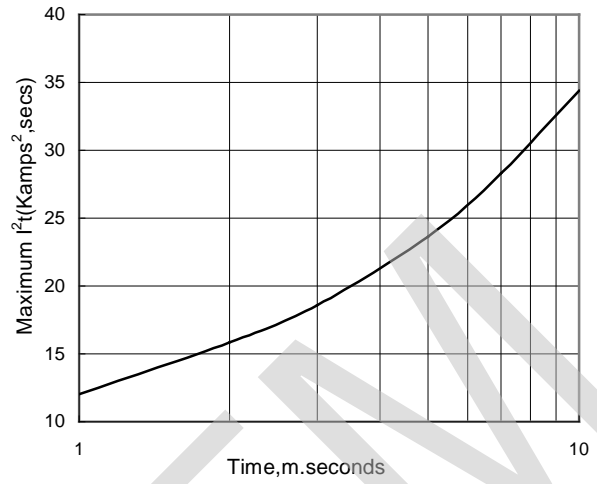
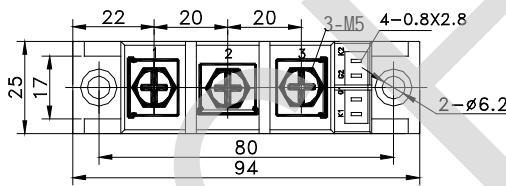
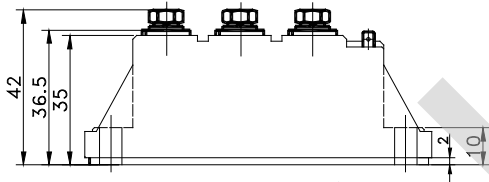
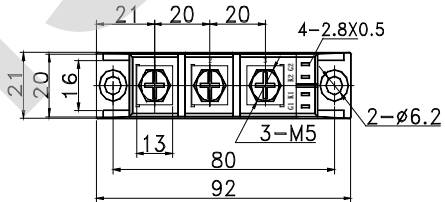
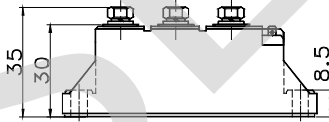


Fig.8

Outline:



217F3



223F3

