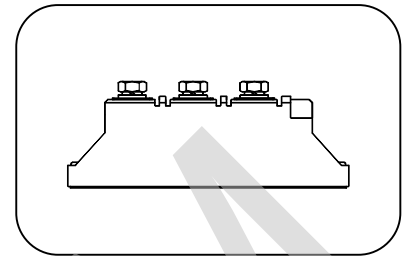


### Features:

- 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**
 $I_{FSM}$ 
 **$2.6A \times 10^3$** 
 $I^2t$ 
 **$34.4A^2 \cdot S \times 10^3$** 


| SYMBOL        | CHARACTERISTIC                          | TEST CONDITIONS                                                    | $T_j(^{\circ}C)$ | VALUE |      |       | UNIT               |
|---------------|-----------------------------------------|--------------------------------------------------------------------|------------------|-------|------|-------|--------------------|
|               |                                         |                                                                    |                  | Min   | Type | Max   |                    |
| $I_{F(AV)}$   | Mean forward current                    | 180° half sine wave 50Hz<br>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         | $V_{RRM}$ tp=10ms<br>$V_{RSM} = V_{RRM} + 200V$                    | 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  | $A^2s \times 10^3$ |
| $V_{FO}$      | Threshold voltage                       |                                                                    | 150              |       |      | 0.80  | V                  |
| $r_F$         | Forward slop resistance                 |                                                                    |                  |       |      | 1.74  | mΩ                 |
| $V_{FM}$      | Peak forward voltage                    | $I_{FM}=330A$                                                      | 25               |       |      | 1.45  | V                  |
| $R_{th(j-c)}$ | Thermal resistance<br>Junction to case  | At 180° sine: Single side cooled                                   |                  |       |      | 0.350 | $^{\circ}C/W$      |
| $R_{th(c-h)}$ | Thermal resistance<br>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                             |                                                                    |                  |       |      |       |                    |

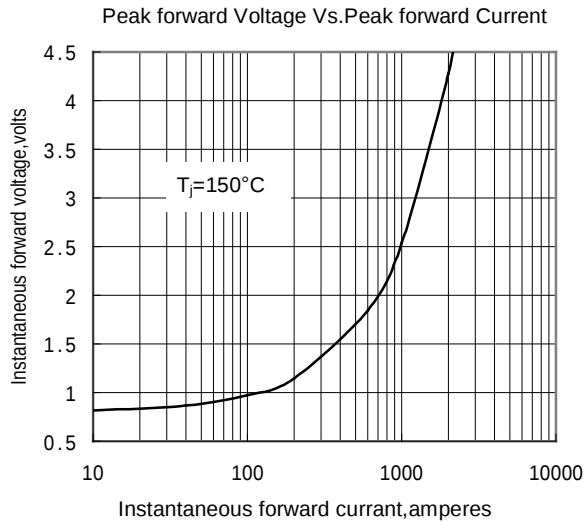


Fig.1

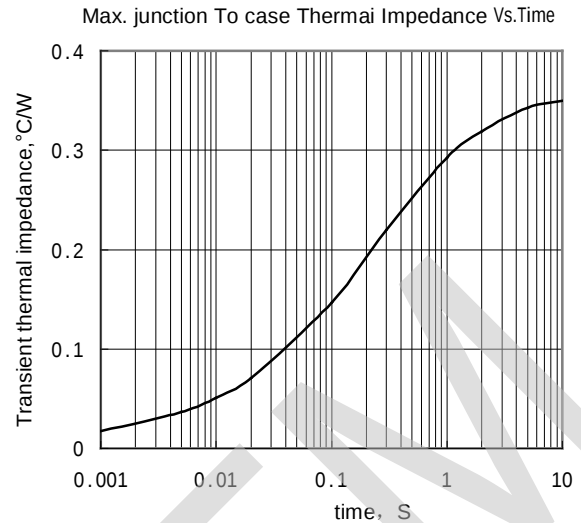


Fig.2

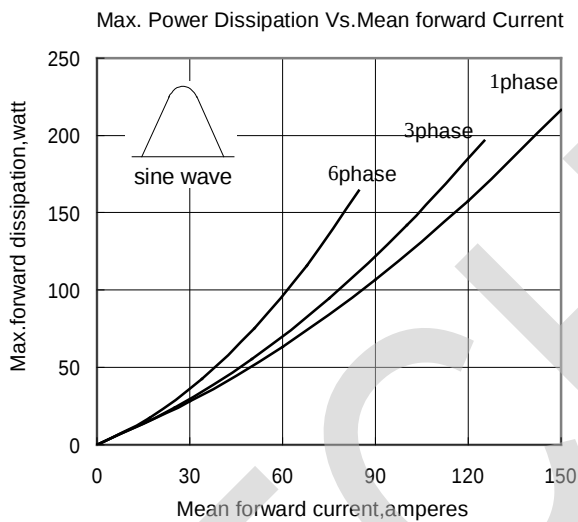


Fig.3

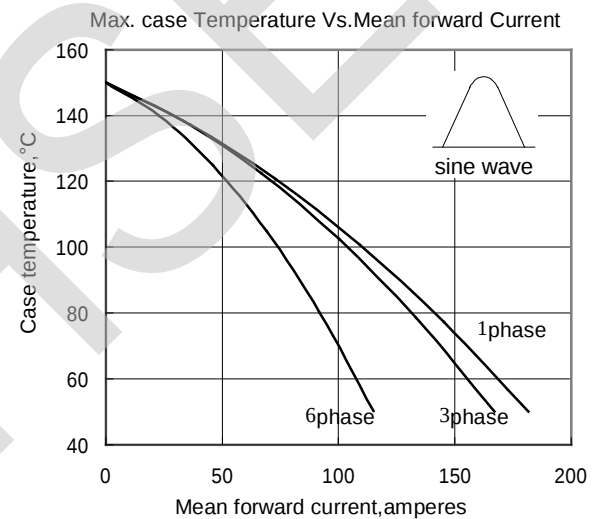


Fig.4

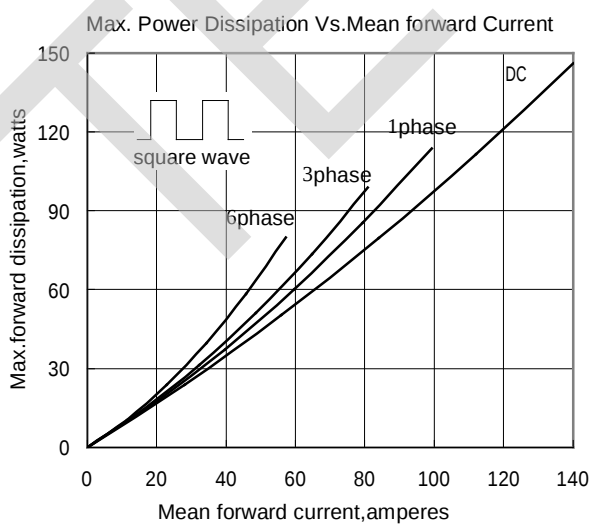


Fig.5

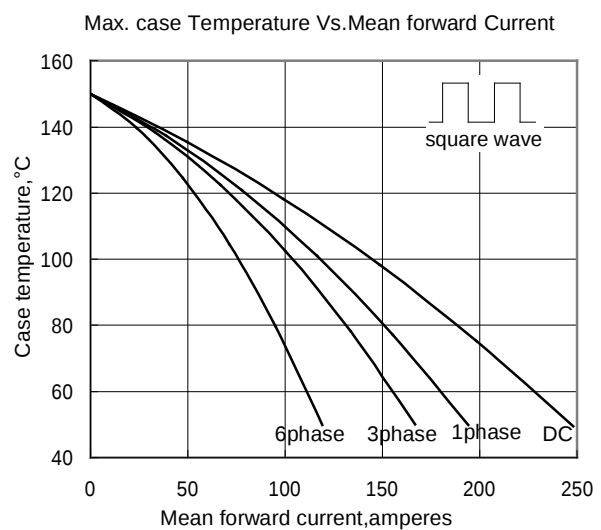


Fig.6

Surge Current Vs.Cycles

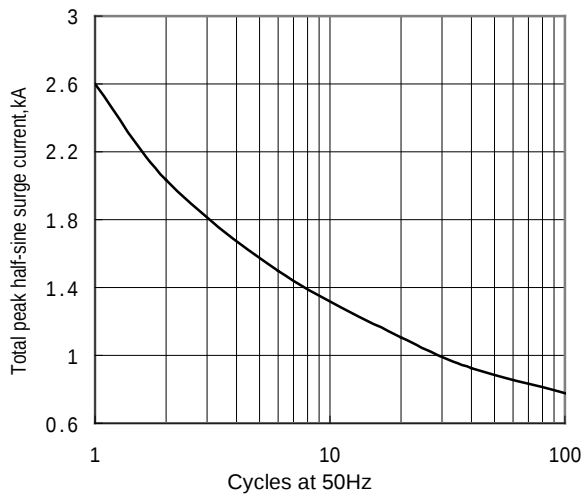


Fig.7

$I^2t$  Vs.Time

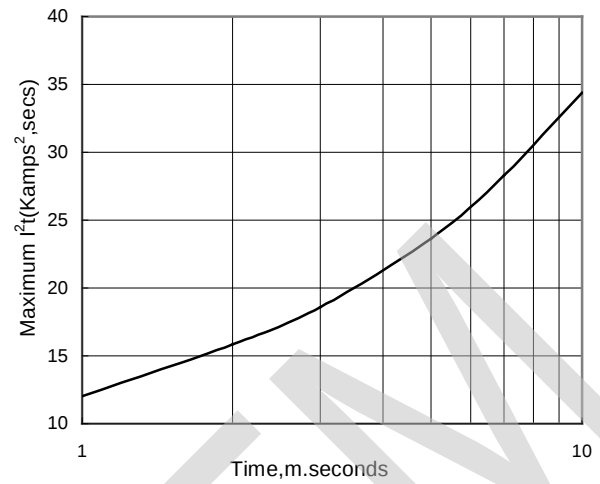
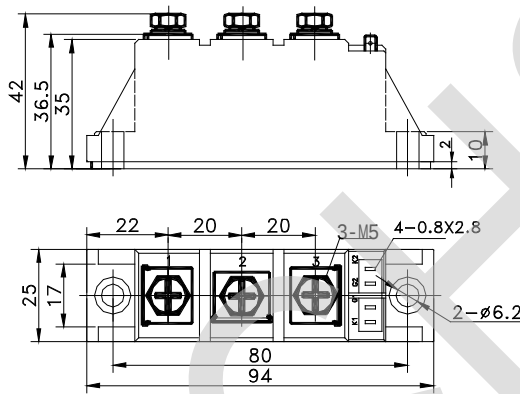
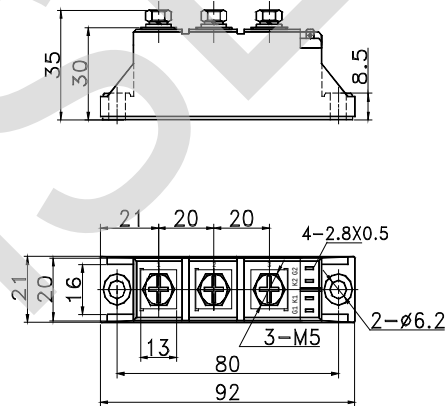


Fig.8

## Outline:



217F3



223F3

