

### Features:

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

### Typical Applications

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

$I_{F(AV)}$       **90A**  
 $V_{RRM}$         **1900~2500V**  
 $I_{FSM}$           **$2.3A \times 10^3$**   
 $I^2t$              **$26 A^2 S \cdot 10^3$**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>J</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>C</sub> =100°C	150			90	A
$I_{F(RMS)}$	RMS forward current		150			141	A
$V_{RRM}$	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	150	1900		2500	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	150			10	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			2.30	KA
$I^2t$	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>				26	A <sup>2</sup> s*10 <sup>3</sup>
$V_{FO}$	Threshold voltage		150			0.85	V
$r_F$	Forward slop resistance					1.88	mΩ
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =270A	25			1.43	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.450	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine: Single side cooled				0.2	°C /W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> : 1mA(max)		3000			V
$F_m$	Terminal connection torque(M5)				4		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				170		g
<b>Outline</b>	223F3/217F3						

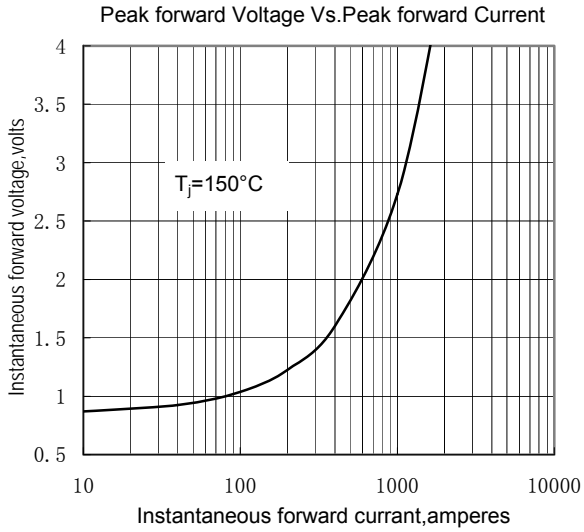


Fig.1

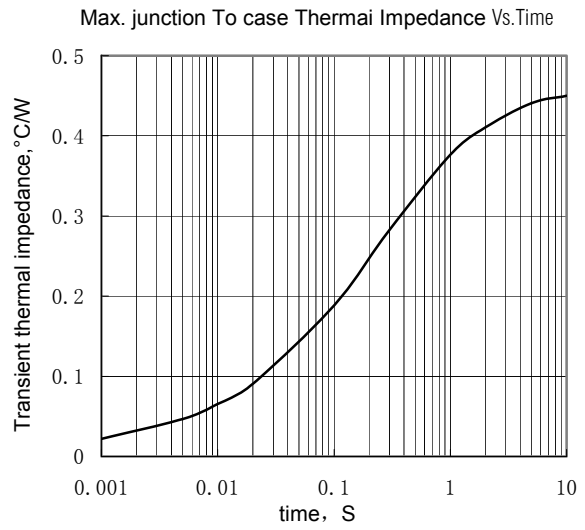


Fig.2

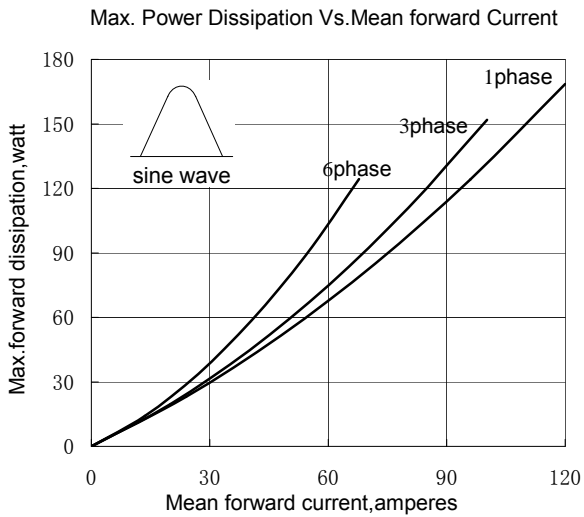


Fig.3

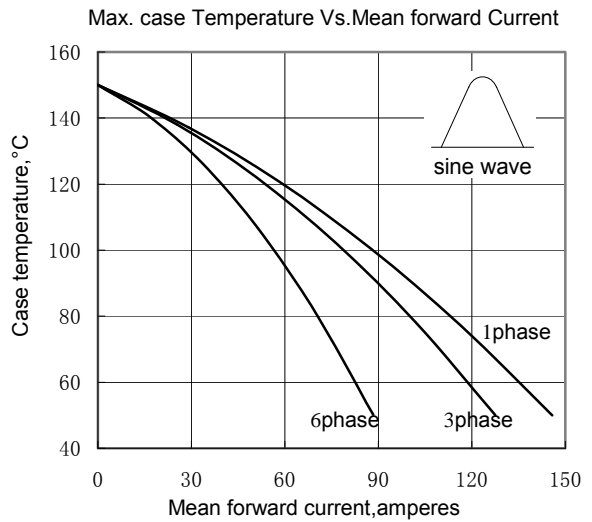


Fig.4

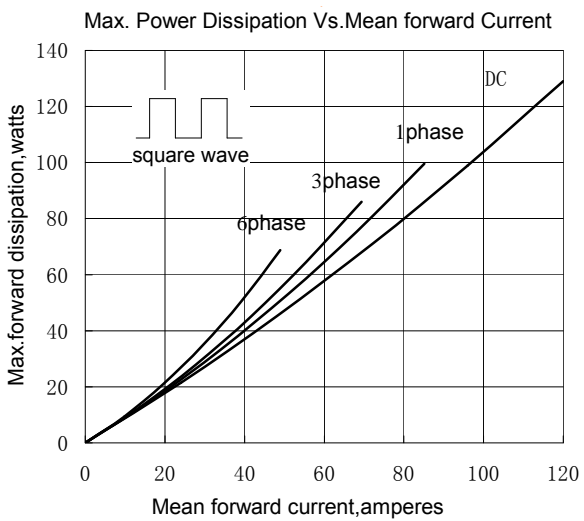


Fig.5

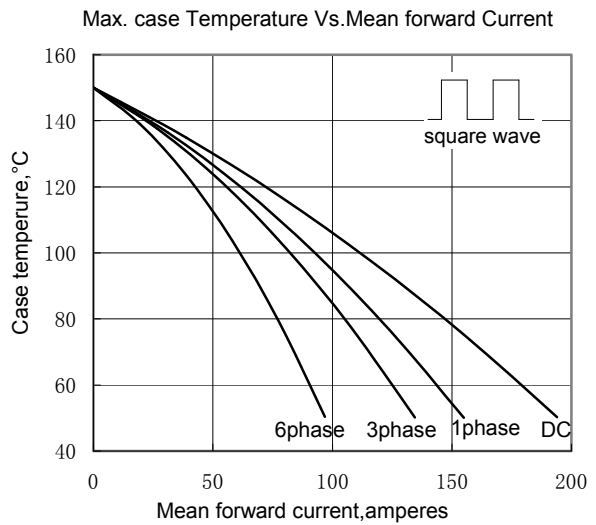
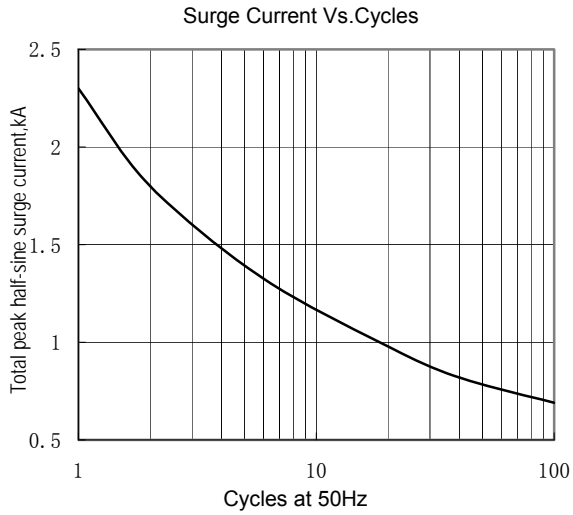
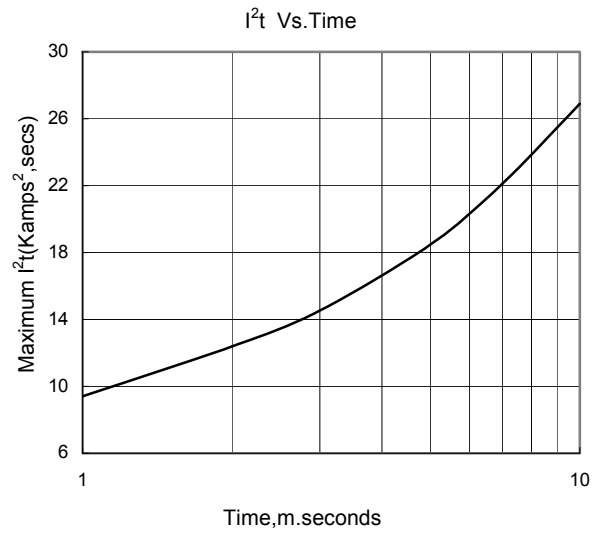


Fig.6

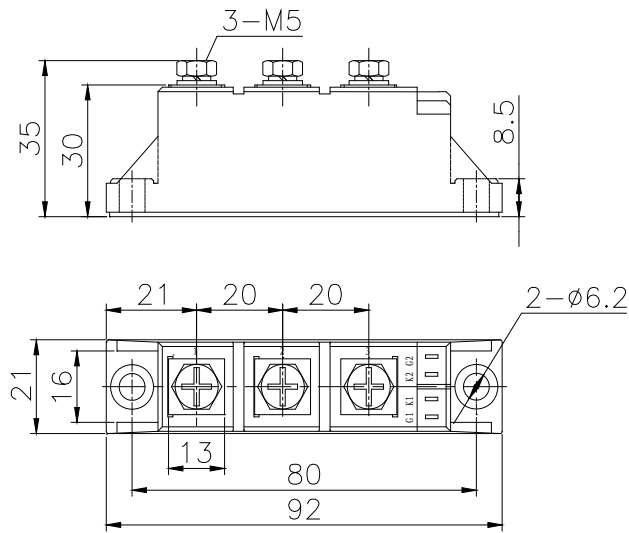


**Fig.7**



**Fig.8**

**Outline:**



**223F3**

