

**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

V_{RSM}	V_{RRM}	Type & Outline
2100 V	2000 V	MDC300-20-413F3
2300 V	2200 V	MDC300-22-413F3
2600 V	2500 V	MDC300-25-413F3

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, $T_c=100^\circ\text{C}$	150			300	A
$I_{F(RMS)}$	RMS forward current		150			471	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			20	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			10	KA
I^2t	I^2T for fusing coordination					500	$\text{A}^2\text{s} \times 10^3$
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					0.50	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=900\text{A}$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.120	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled				0.04	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S.,t=1min, I_{iso} :1mA(max)		3000			V
F_m	Terminal connection torque(M8)				12		N·m
	Mounting torque(M6)				6		N·m
T_{vj}	junction temperature			-40		150	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				806		g
Outline				413F3			

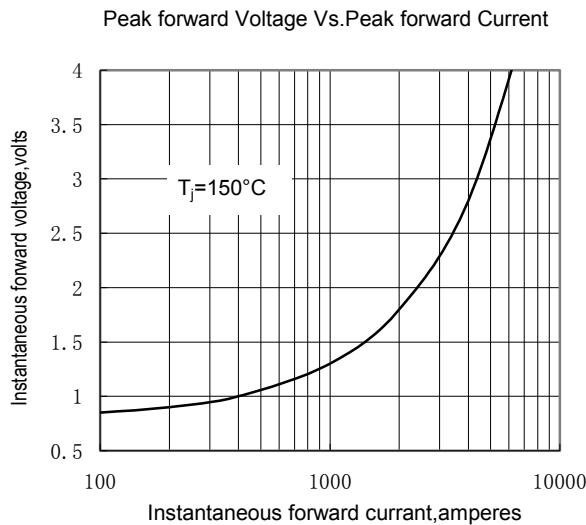


Fig.1

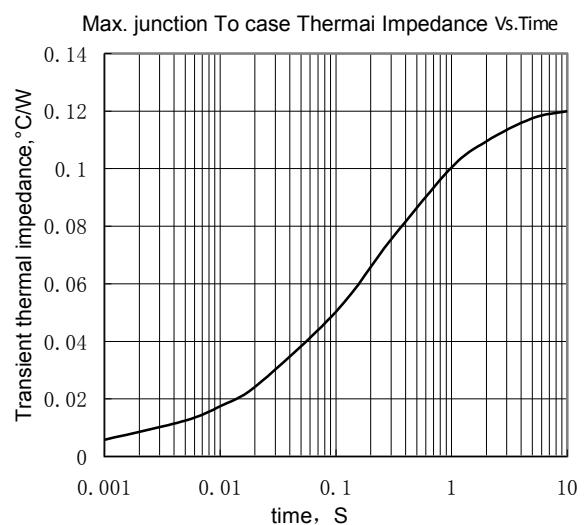


Fig.2

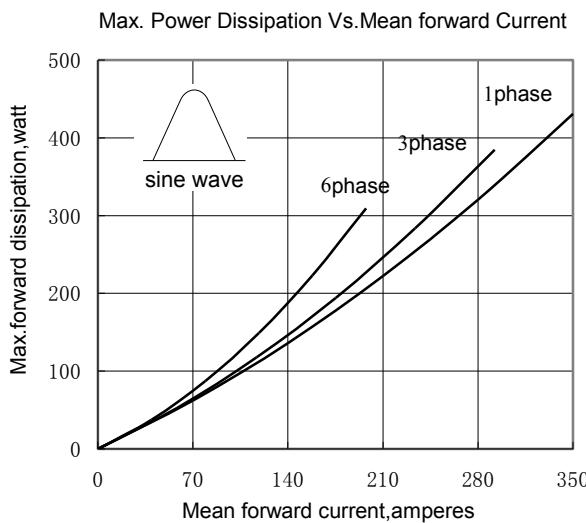


Fig.3

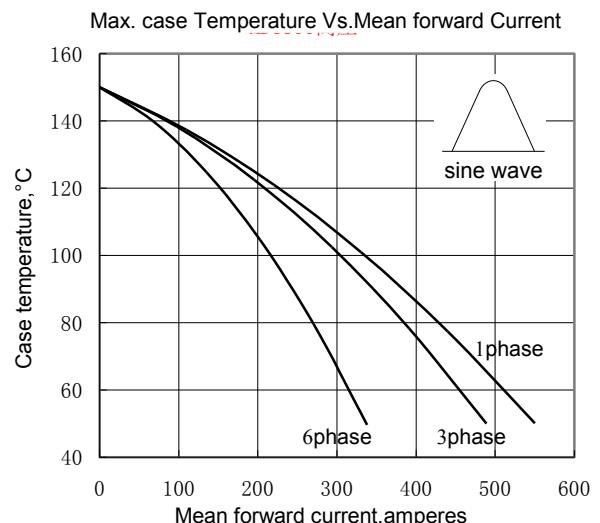


Fig.4

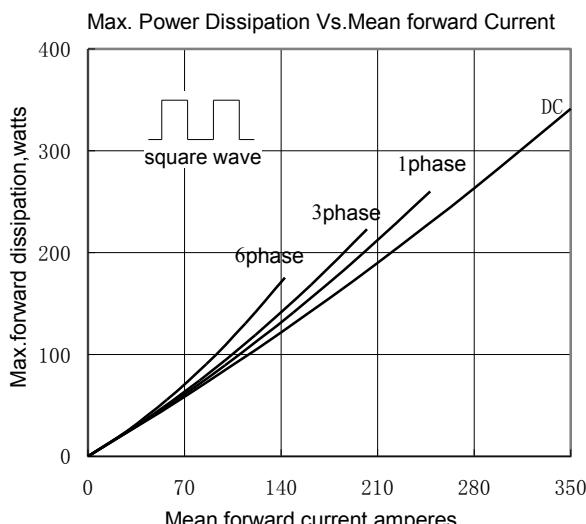


Fig.5

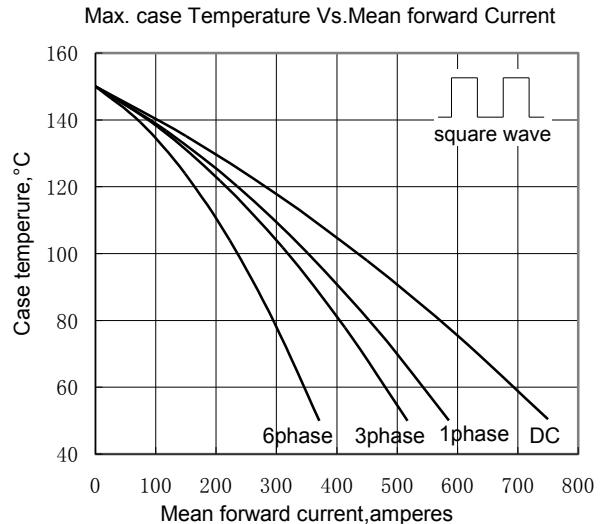


Fig.6

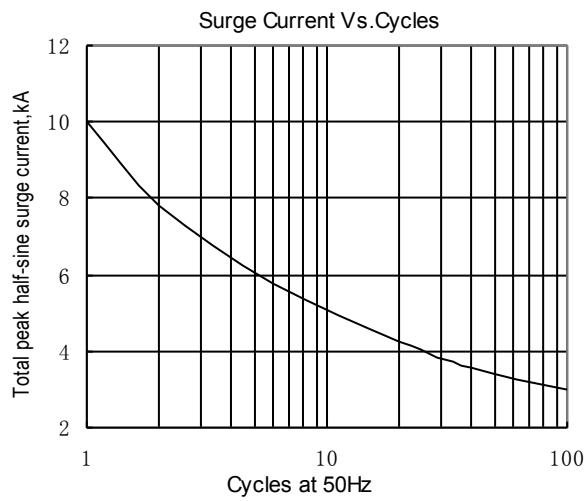


Fig.7

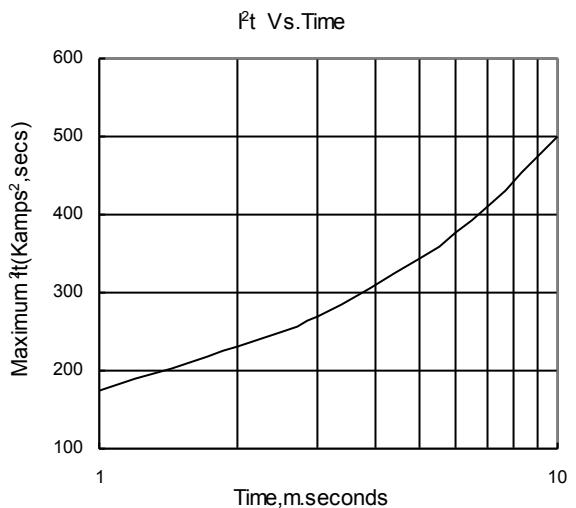
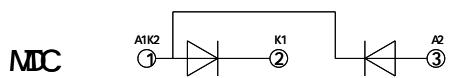
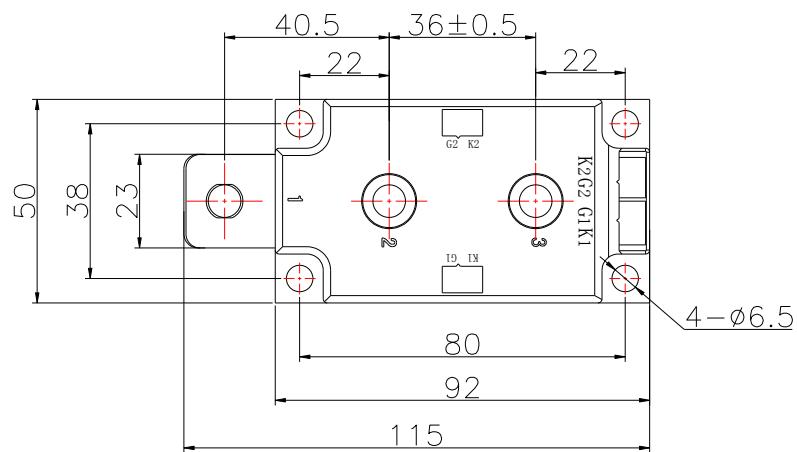
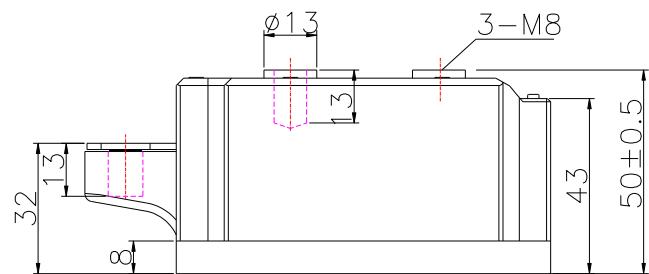


Fig.8

Outline:



413F3