

**Features:**

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

Typical Applications:

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

V_{RRM}, V_{DRM}	Type & Outline		
	2000V	MTx200-20-413F3D	MFx200-20-413F3D
2200V	MTx200-22-413F3D	MFx200-22-413F3D	
2600V	MTx200-26-413F3D	MFx200-26-413F3D	
2600V	MT200-26-413F3DG		

MTx stands for any type of **MTC**, **MTA**, **MTK**
MFx stands for any type of **MFC**, **MFA**, **MFK**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_i (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Single side cooled, $T_c=85^\circ C$	125			200	A
$I_{T(RMS)}$	RMS on-state current					314	A
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			30	mA
I_{TSM}	Surge on-state current	$V_R=60\%V_{RRM}, t=10ms$ half sine,	125			6.5	kA
I^2t	I^2t for fusing coordination		125			211	$10^3 A^2s$
V_{TO}	Threshold voltage		125			0.85	V
r_T	On-state slope resistance					1.14	$m\Omega$
V_{TM}	Peak on-state voltage	$I_{TM}=600A$	25			1.90	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	125			1000	$V/\mu s$
di/dt	Critical rate of rise of on-state current	Gate source 1.5A $t_r \leq 0.5\mu s$ Repetitive	125			200	$A/\mu s$
I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$	25	30		180	mA
V_{GT}	Gate trigger voltage			0.7		2.5	V
I_H	Holding current			10		200	mA
I_L	Latching current					1000	mA
V_{GD}	Non-trigger gate voltage	$V_{DM}=67\%V_{DRM}$	125			0.20	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled per chip				0.14	$^\circ C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled per chip				0.04	$^\circ C/W$
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA$ (MAX)		3000			V
F_m	Terminal connection torque(M8)			10		12	$N\cdot m$
	Mounting torque(M6)			4.5		6	$N\cdot m$
T_{vj}	Junction temperature			-40		125	$^\circ C$
T_{stg}	Stored temperature			-40		125	$^\circ C$
W_t	Weight				770		g
Outline		413F3D					

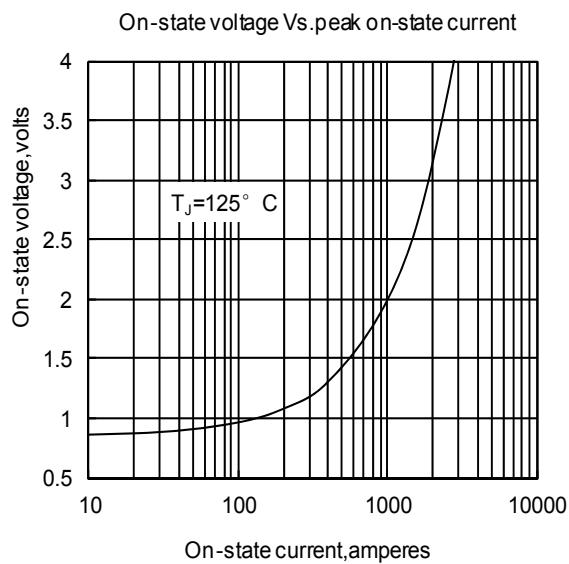


Fig. 1

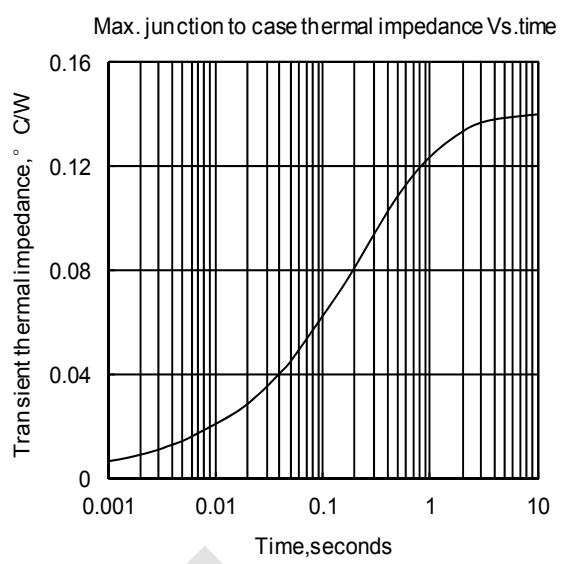


Fig. 2

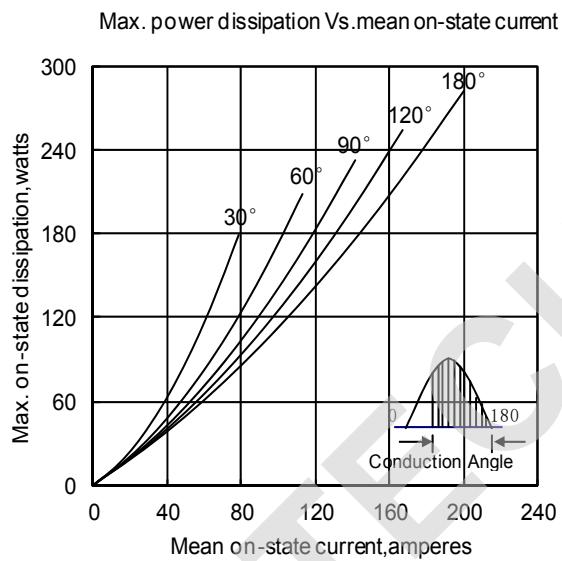


Fig. 3

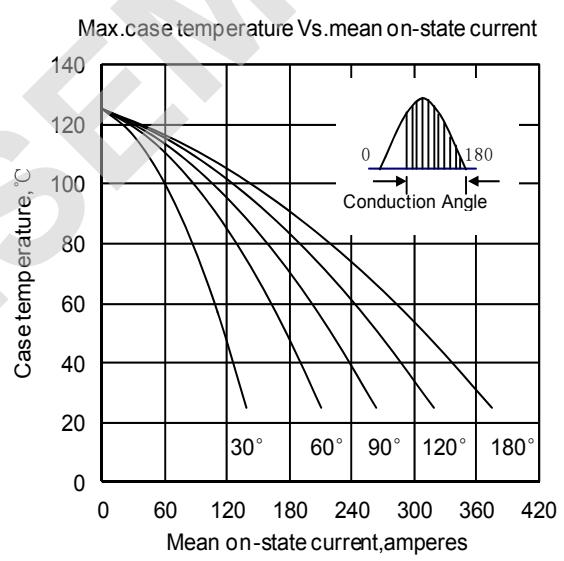


Fig. 4

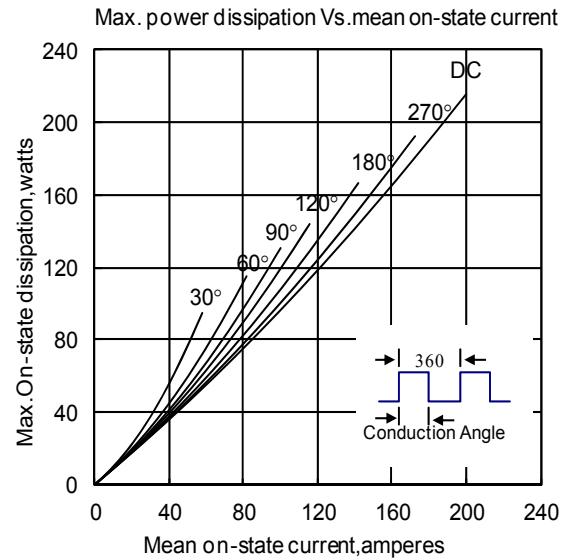


Fig. 5

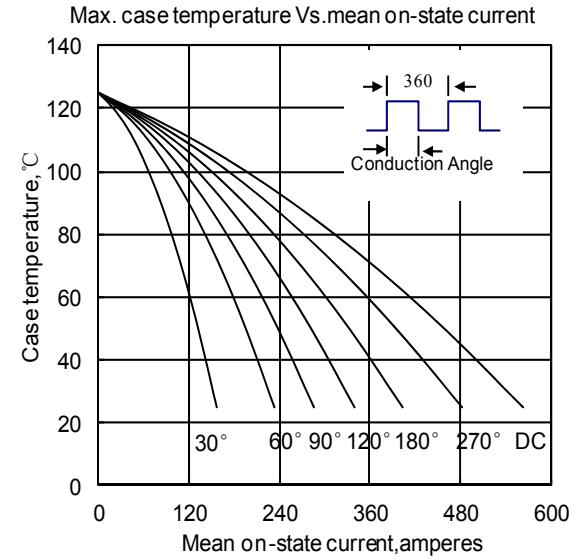


Fig. 6

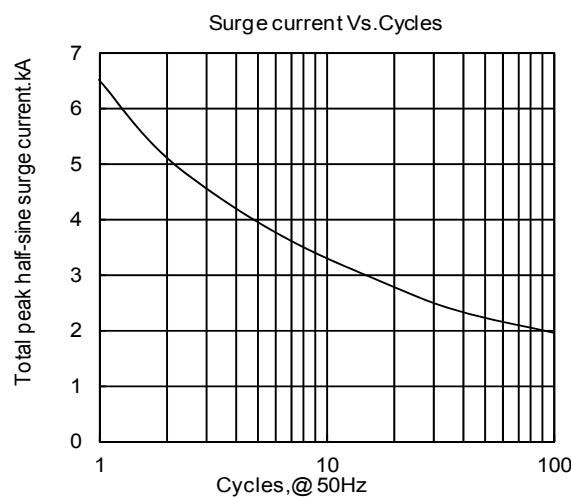


Fig. 7

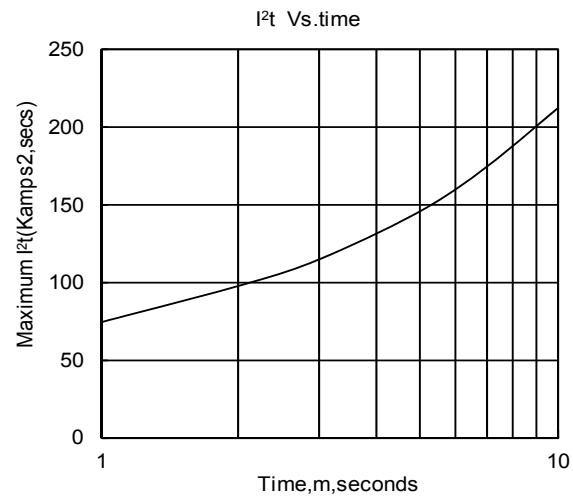


Fig. 8

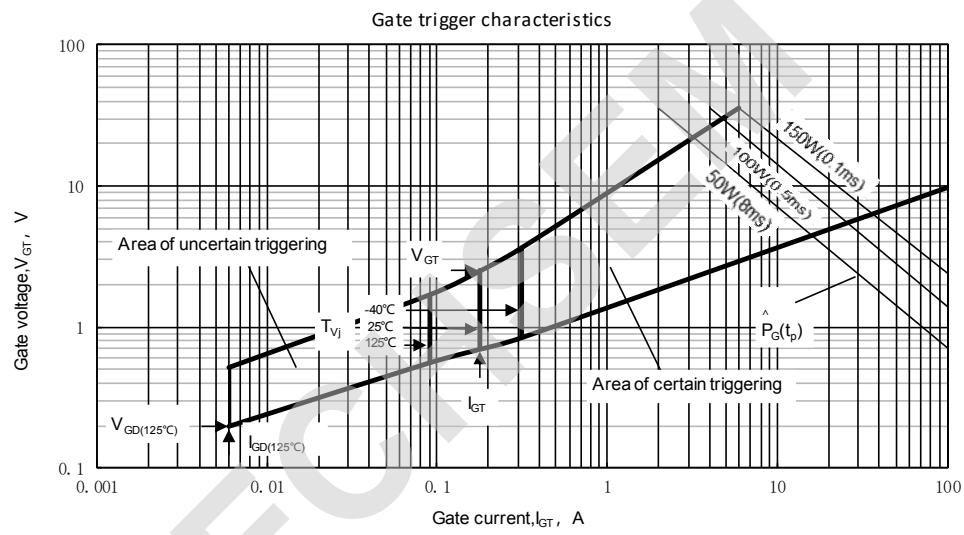
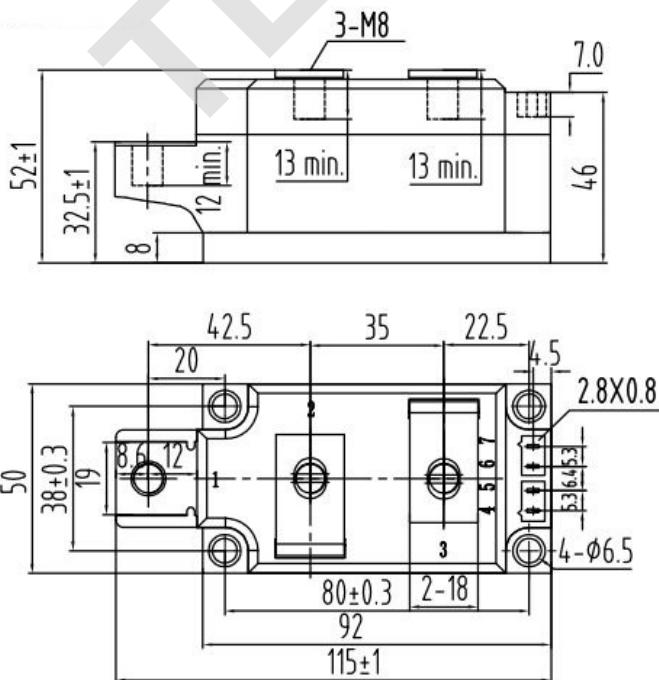


Fig. 9

Outline:**Unmarked dimensional tolerance: ±0.5mm**