**Features:**

- Isolated mounting base 4000V~
- 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		
	MTx400-26-410F3	MFx400-26-410F3	MTx400-28-410F3
2600V	MTx400-26-410F3	MFx400-26-410F3	MFx400-28-410F3
2800V	MTx400-28-410F3	MFx400-28-410F3	MFx400-30-410F3
3000V	MTx400-30-410F3	MFx400-30-410F3	MFx400-32-410F3
3200V	MTx400-32-410F3	MFx400-32-410F3	MFx400-34-410F3
3400V	MTx400-34-410F3	MFx400-34-410F3	MFx400-36-410F3
3600V	MTx400-36-410F3	MFx400-36-410F3	MFx400-36-410F3G
3600V	MT400-36-410F3G		

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz Single side cooled, T _c =85°C	125			400	A
I _{T(RMS)}	RMS on-state current					628	A
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} at V _{RRM}	125			55	mA
I _{TSM}	Surge on-state current	V _R =60%V _{RRM} , t=10ms half sine,	125			10.5	kA
I ² t	I ² t for fusing coordination					551	10 ³ A ² s
V _{TO}	Threshold voltage		125			0.98	V
r _T	On-state slope resistance					0.88	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =1200A	25			2.35	V
dV/dt	Critical rate of rise of off-state voltage	V _{DM} =67%V _{DRM}	125			1000	V/μs
dI/dt	Critical rate of rise of on-state current	Gate source 1.5A t _r ≤0.5μs Repetitive	125			200	A/μs
I _{GT}	Gate trigger current	V _A =12V, I _A =1A	25	30		200	mA
V _{GT}	Gate trigger voltage			0.8		3.0	V
I _H	Holding current			20		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				0.054	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled per chip				0.024	°C/W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(MAX)		4000			V
F _m	Terminal connection torque(M12)			12		16	N·m
	Mounting torque(M8)			10		12	N·m
T _{vj}	Junction temperature			-40		125	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				3310		g
Outline		410F3					

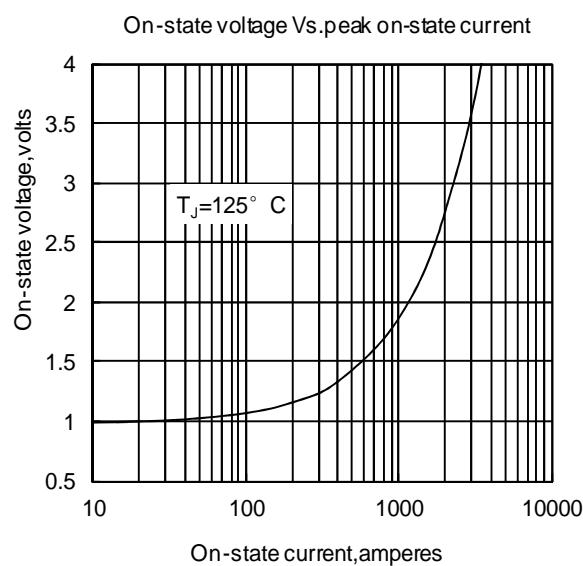


Fig. 1

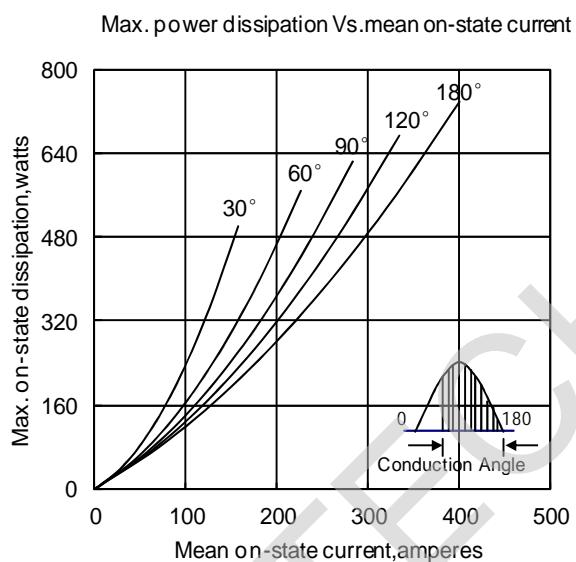


Fig. 3

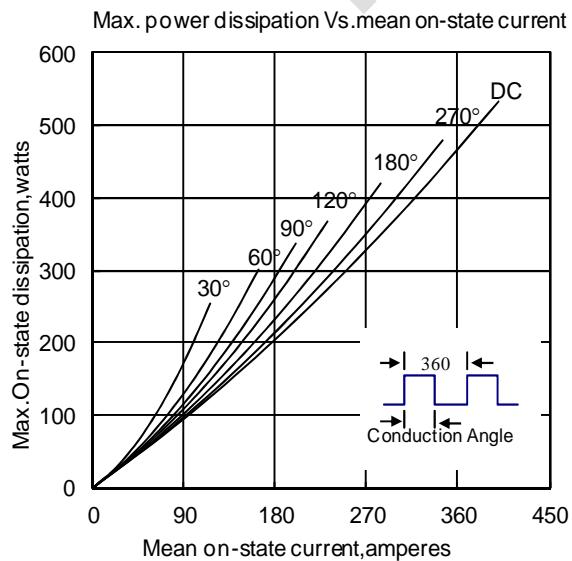


Fig. 5

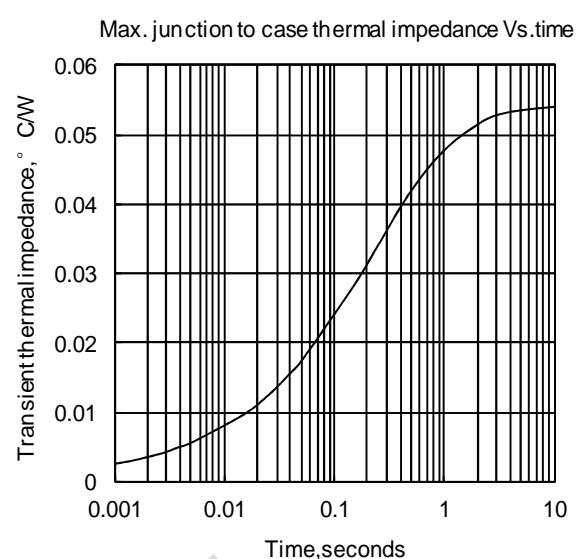


Fig. 2

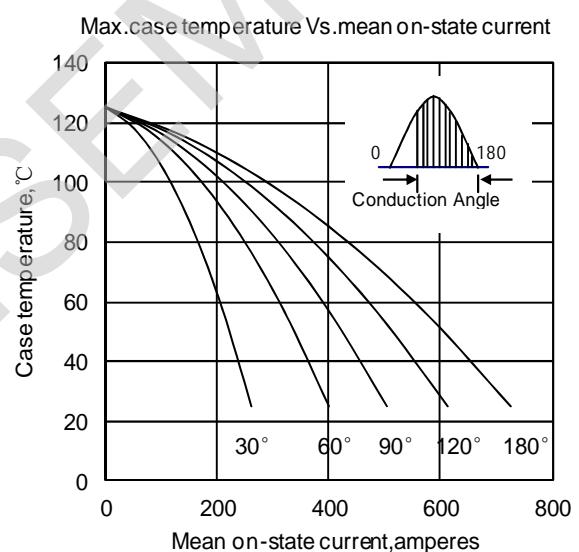


Fig. 4

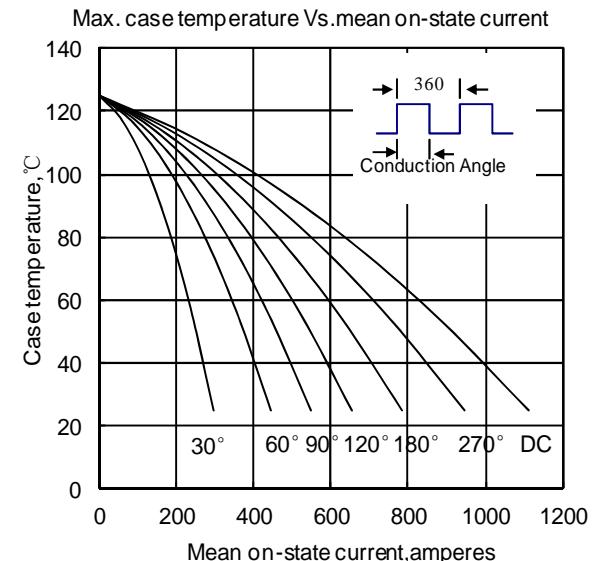


Fig. 6

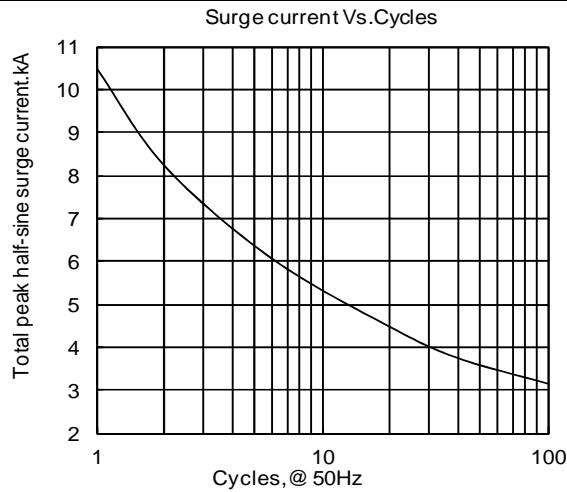


Fig. 7

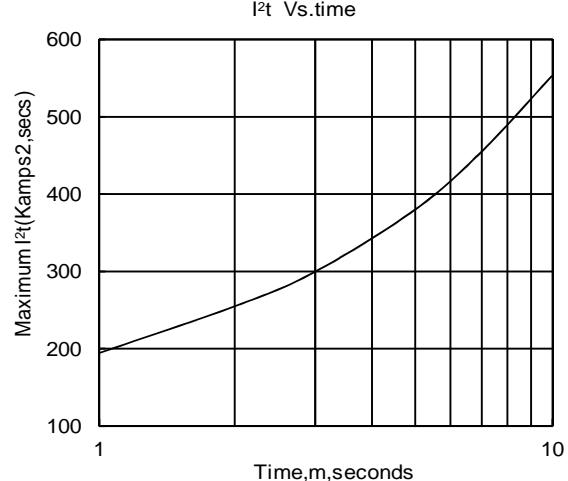


Fig. 8

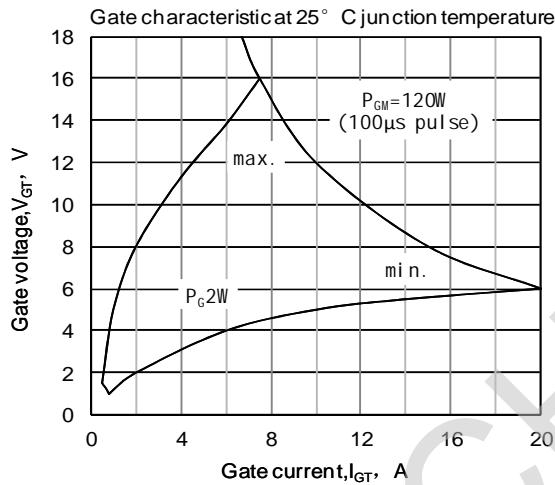


Fig. 9

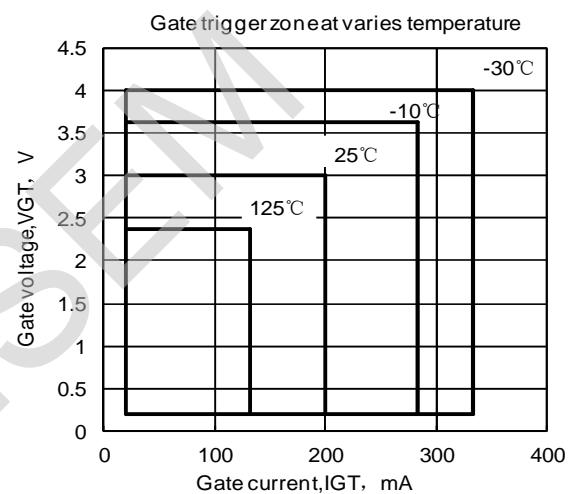
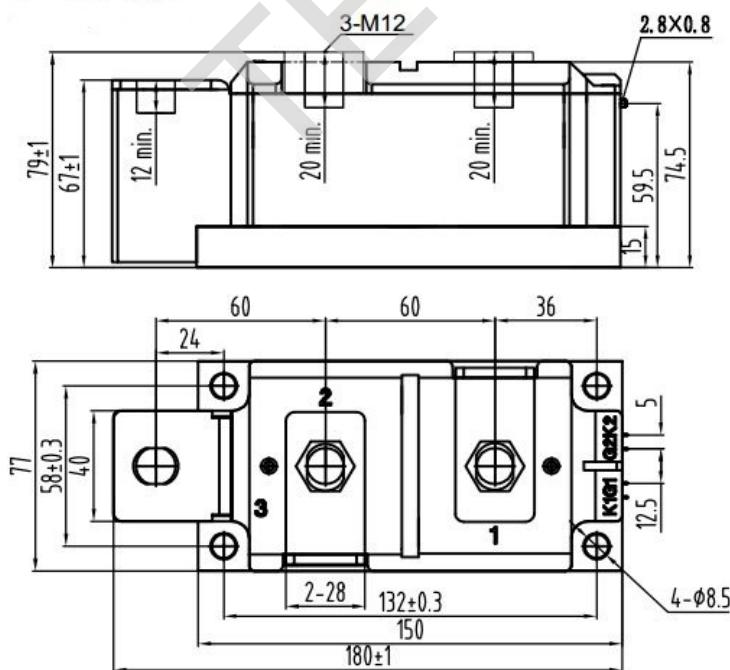


Fig. 10

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

TECHSEM reserves the right to change specifications without notice.