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_{DSM},V_{RSM}	V_{DRM},V_{RRM}	品 名
2700V	2600V	Mx110T260
2900V	2800V	Mx110T280
3100V	3000V	Mx110T300
3300V	3200V	Mx110T320
3500V	3400V	Mx110T340
3700V	3600V	Mx110T360

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			110	A
$I_{T(RMS)}$	RMS on-state current					173	A
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			20	mA
I_{TSM}	Surge on-state current	V_R=60%V_{RRM}, t=10ms half sine	125			2.1	kA
I^2t	I^2t for fusing coordination		125			22	10^3A^2s
V_{TO}	Threshold voltage		125			1.15	V
r_T	On-state slope resistance					2.88	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=330A	25			2.80	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		150	mA
V_{GT}	Gate trigger voltage			0.8		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	D.C. Single side cooled per chip				0.19	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.15	°C/W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(MAX)		4000			V
F_m	Terminal connection torque(M6)			4.5		6	N·m
	Mounting torque(M6)			4.5		6	N·m
T_{vj}	Junction temperature			-40		125	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				320		g
Outline	M02						

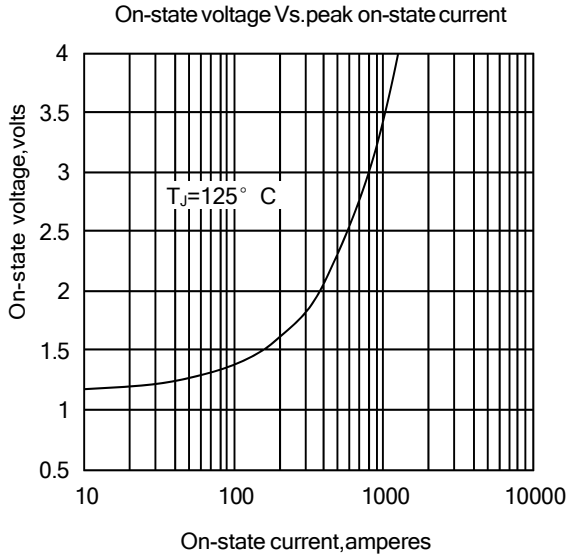


Fig. 1

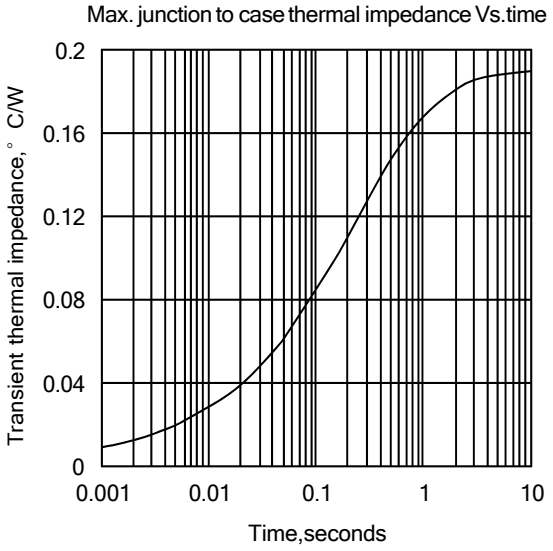


Fig. 2

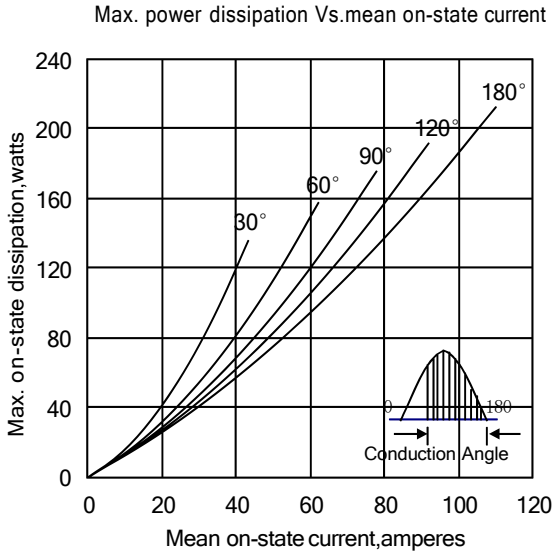


Fig. 3

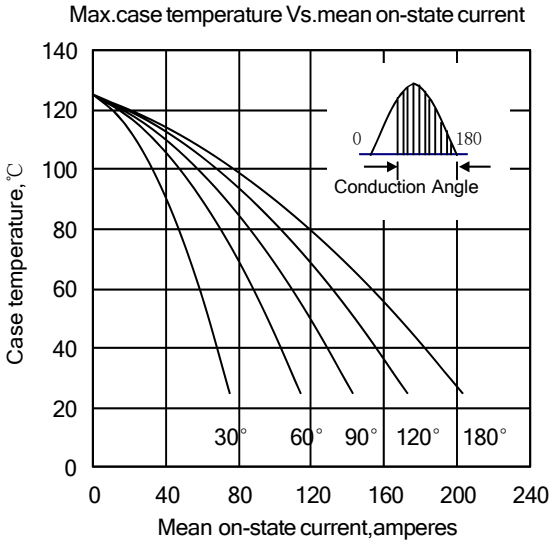


Fig. 4

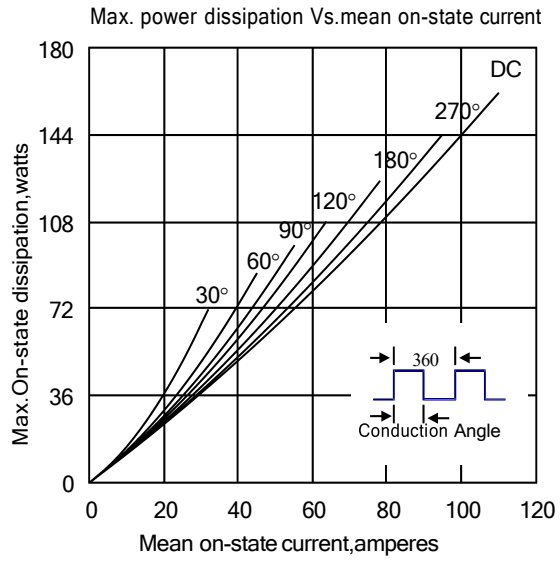


Fig. 5

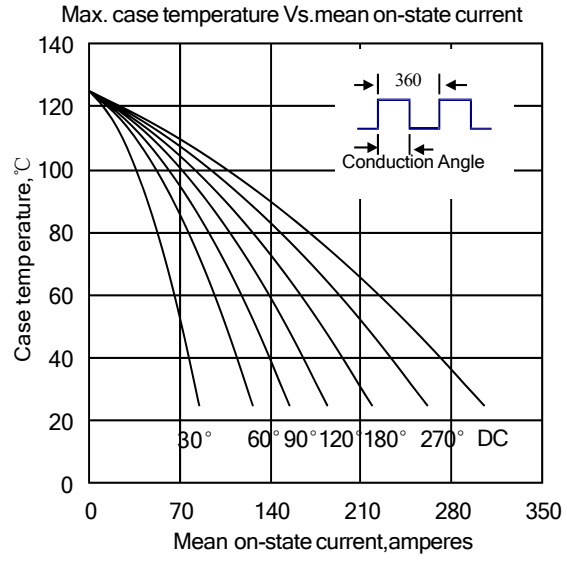


Fig. 6

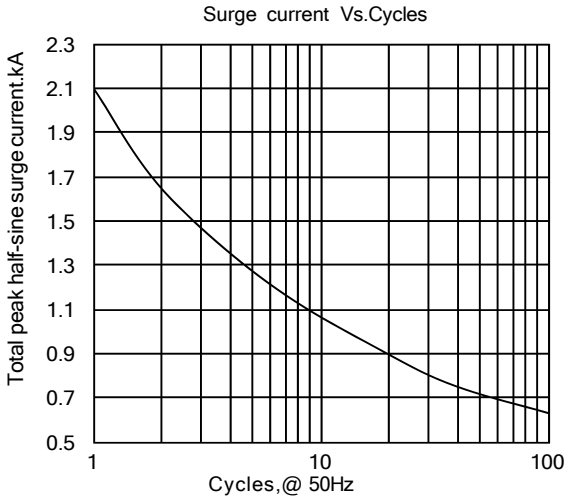


Fig. 7

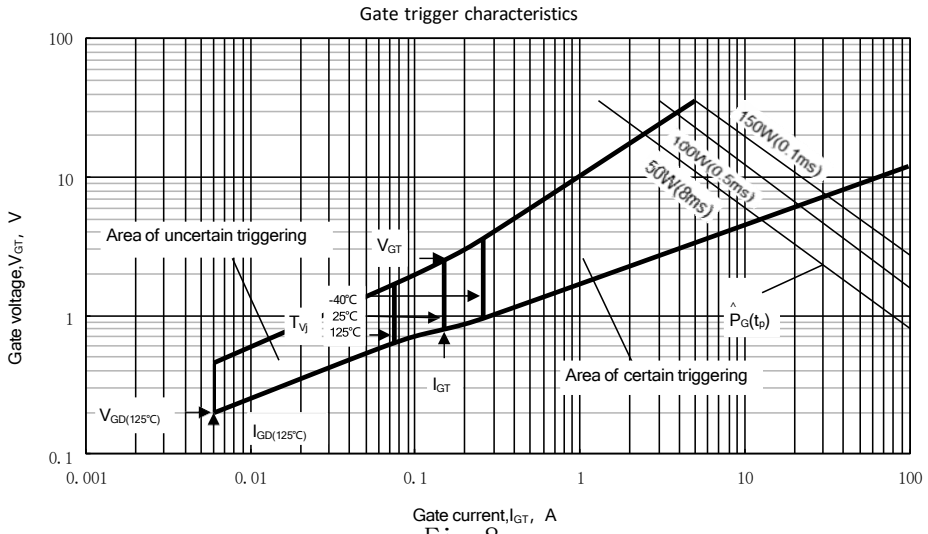
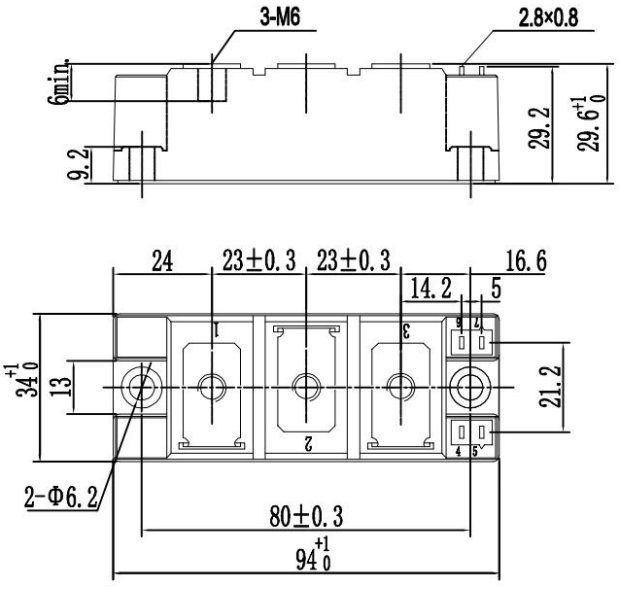
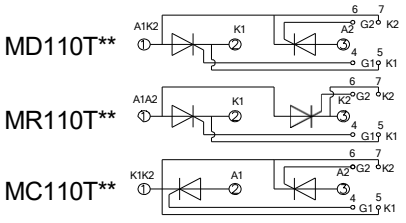


Fig. 8

Outline:





Unmarked dimensional tolerance：±0.5mm

NIPS reserves the right to change specifications without notice.