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_{DSM},V_{RSM}	V_{DRM},V_{RRM}	品名
2100V	2000V	Mx90TH200
2300V	2200V	Mx90TH220
2600V	2500V	Mx90TH250

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(℃)	VALUE			UNIT
				Min.	Typ.	Max.	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Single side cooled, T_c=85℃	125			90	A
$I_{T(RMS)}$	RMS on-state current					141	A
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			15	mA
I_{TSM}	Surge on-state current	10ms half sine wave V_R=60%V_{RRM}	125			1.50	kA
I^2t	I^2t for fusing coordination					11.25	A^2s*10^3
V_{TO}	Threshold voltage		125			0.85	V
r_T	On-state slope resistance					3.26	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=270A	25			1.93	V
dv/dt	Critical rate of rise of off-state voltage	V_{DM}=67%V_{DRM}	125			800	V/μs
di/dt	Critical rate of rise of on-state current	Gate source 1.5A t_r≤0.5μs Repetitive	125			100	A/μs
I_{GT}	Gate trigger current	V_A=12V, I_A=1A	25	30		100	mA
V_{GT}	Gate trigger voltage			0.7		2.5	V
I_H	Holding current			10		150	mA
V_{GD}	Non-trigger gate voltage	V_{DM}=67%V_{DRM}	125	0.2			V
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.28	℃/W
$R_{th(c-h)}$	Thermal resistance case to heat sink	D.C. Single side cooled per chip				0.15	℃/W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(MAX)		3000			V
F_m	Terminal connection torque (M5)			2.4		3.0	N·m
	Mounting torque (M6)				6.0		N·m
T_{vj}	Junction temperature			-40		125	℃
T_{stg}	Stored temperature			-40		125	℃
W_t	Weight				170		g
Outline	M01						

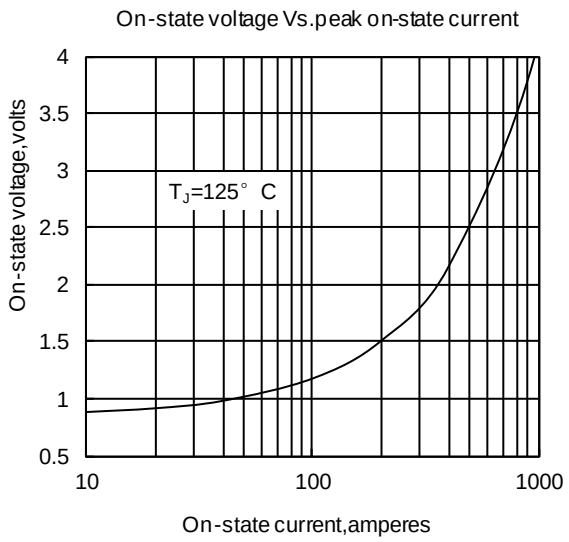


Fig. 1

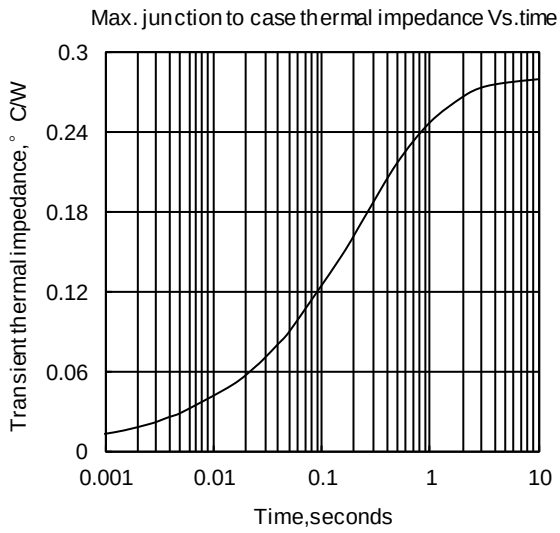


Fig. 2

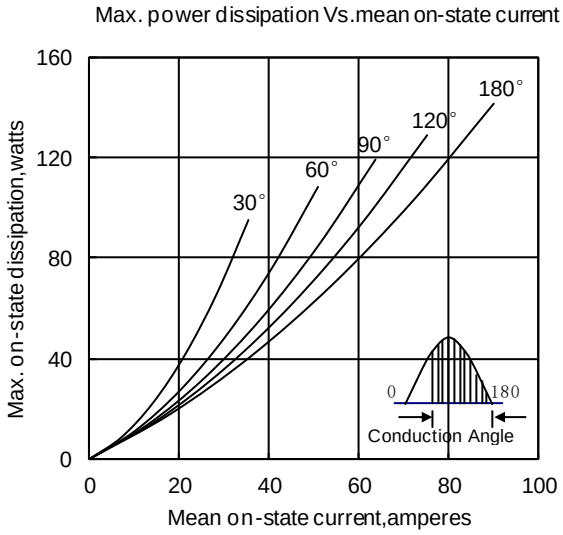


Fig. 3

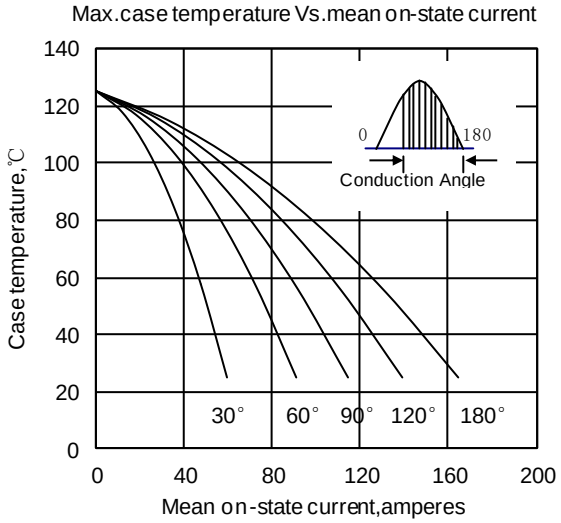


Fig. 4

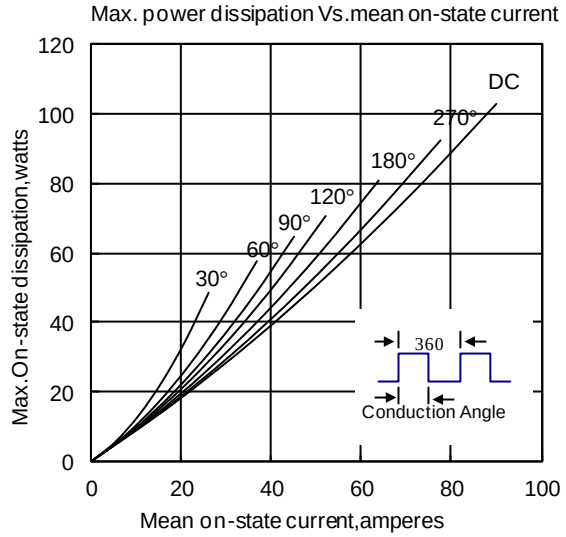


Fig. 5

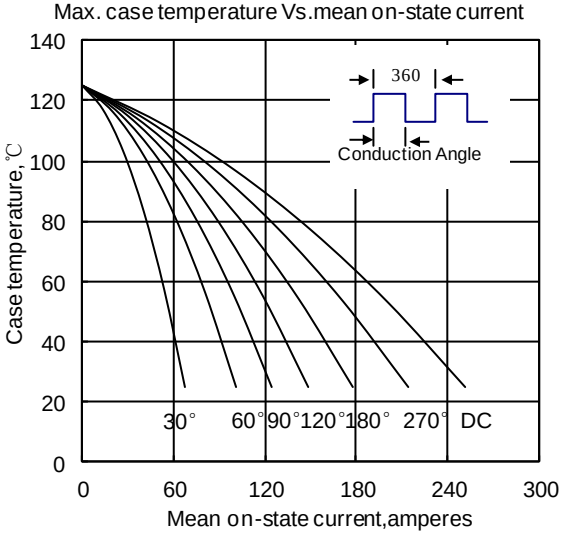


Fig. 6

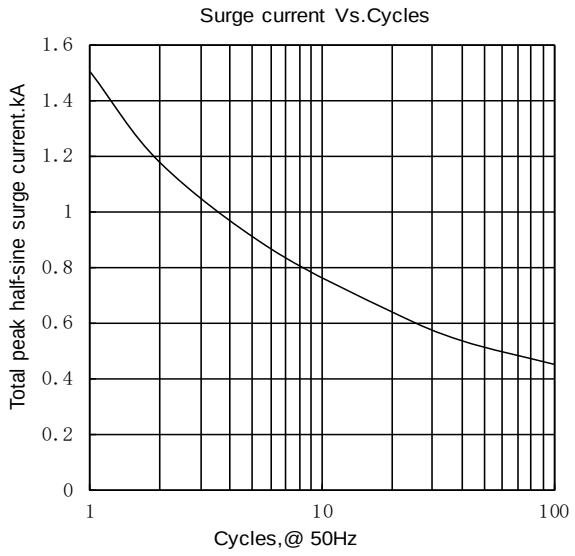


Fig.7

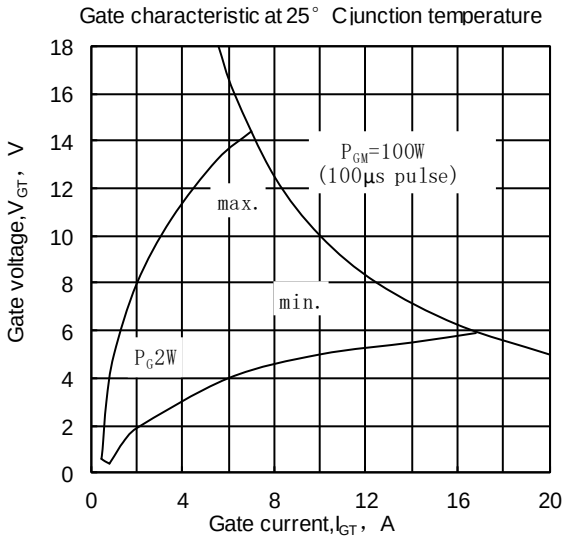


Fig8

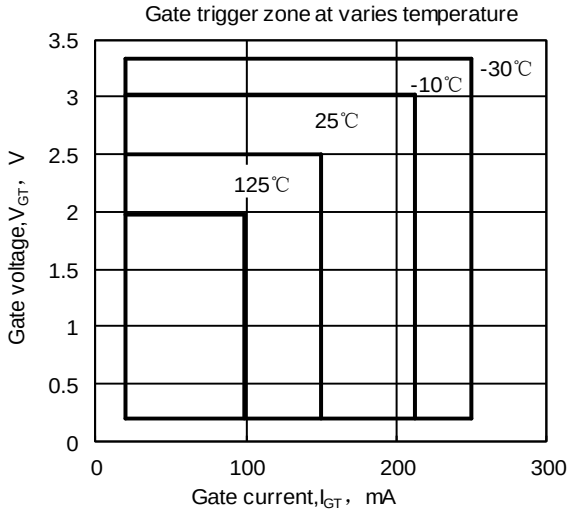
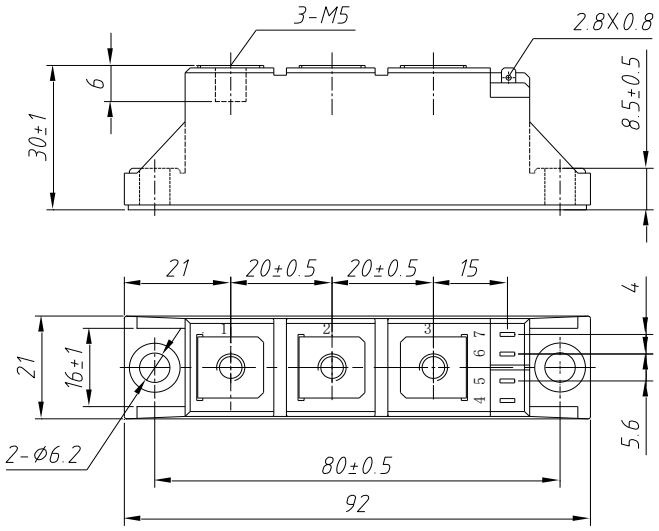
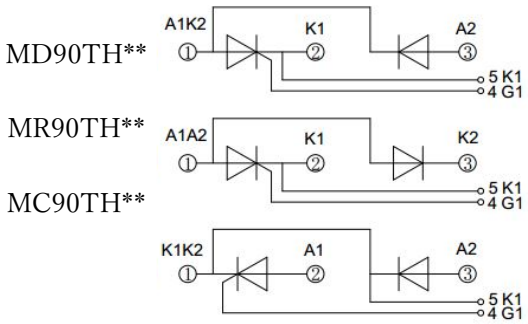


Fig9





Unmarked dimensional tolerance：±0.5mm

NIps reserves the right to change specifications without notice.