

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	Mx200T260C
2900V	2800V	Mx200T280C
3100V	3000V	Mx200T300C
3300V	3200V	Mx200T320C
3500V	3400V	Mx200T340C
3700V	3600V	Mx200T360C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min.	Typ.	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			40	mA
I_{TSM}	Surge on-state current					6	kA
I^2t	I^2t for fusing coordination	$V_R=60\%V_{RRM}, t=10ms$ half sine	125			180	10^3A^2s
V_{TO}	Threshold voltage		125			0.96	V
r_T	On-state slope resistance					1.30	m Ω
V_{TM}	Peak on-state voltage	$I_{TM}=600A$	25			2.10	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 $t_r \leq 0.5\mu s$ Repetitive	125			200	A/ μs
I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$	25	30		180	mA
V_{GT}	Gate trigger voltage			0.8		2.5	V
I_H	Holding current			20		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				0.12	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink	D.C. Single side cooled per chip				0.04	$^{\circ}C/W$
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(MAX)$		4000			V
F_m	Terminal connection torque (M8)			10.0		12.0	N·m
	Mounting torque (M6)			4.5		6.0	N·m
T_{vj}	Junction temperature			-40		125	$^{\circ}C$
T_{stg}	Stored temperature			-40		125	$^{\circ}C$
W_t	Weight				770		g
Outline	M03						

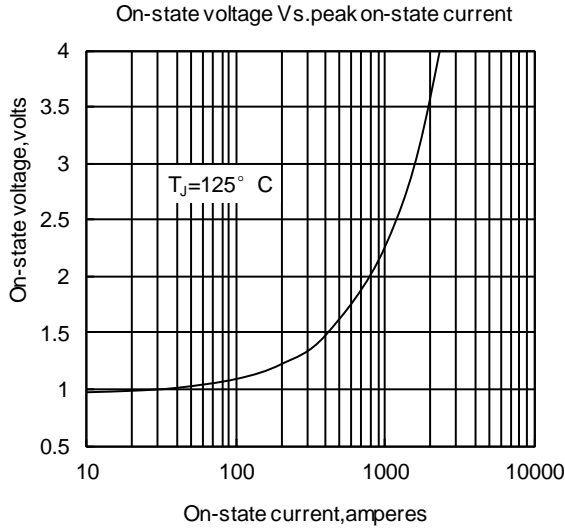


Fig. 1

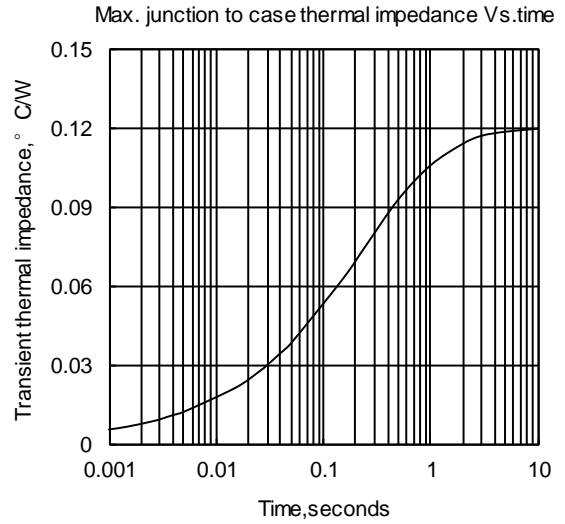


Fig. 2

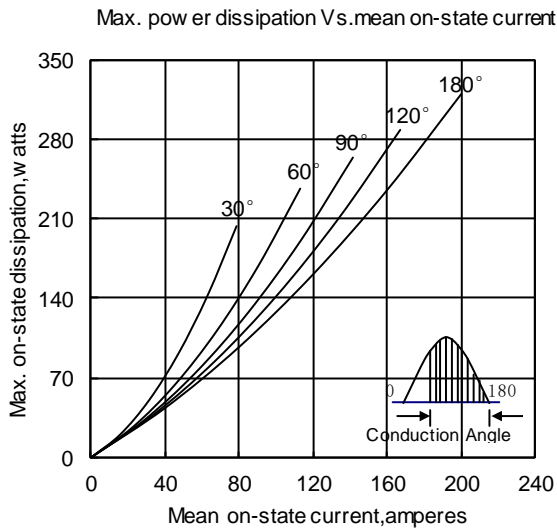


Fig. 3

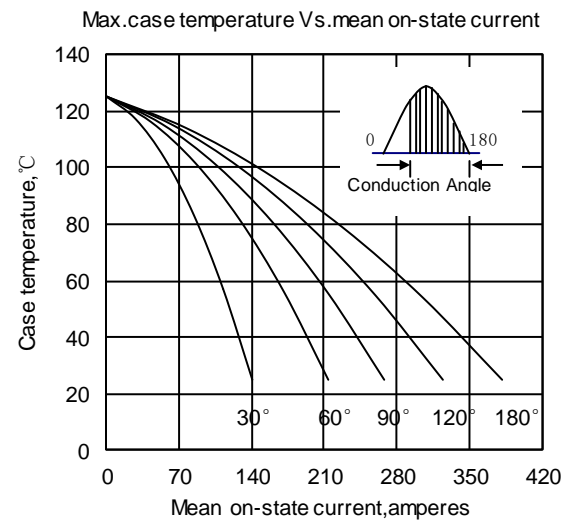


Fig. 4

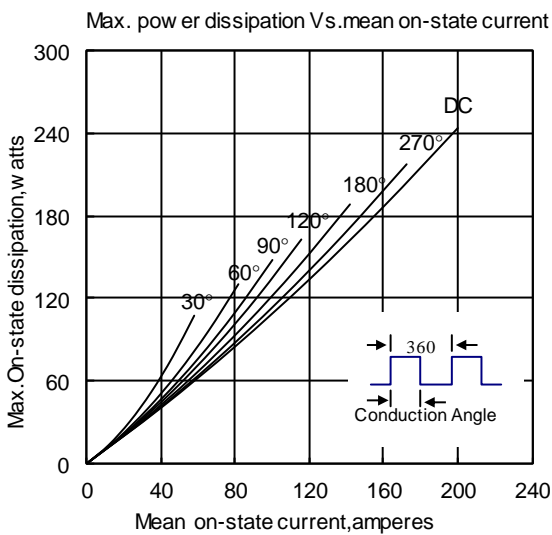


Fig. 5

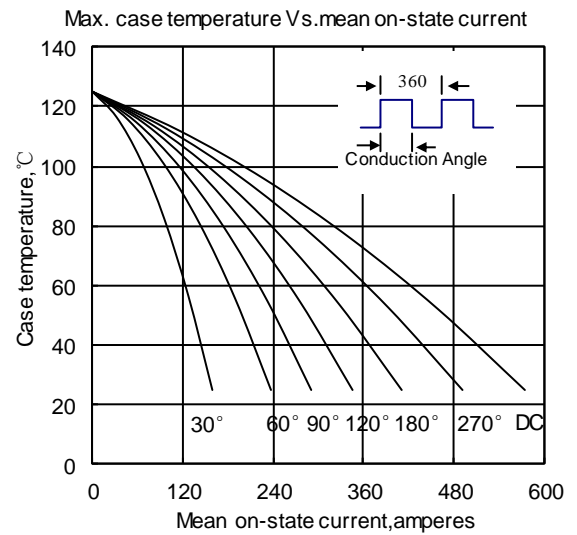


Fig. 6

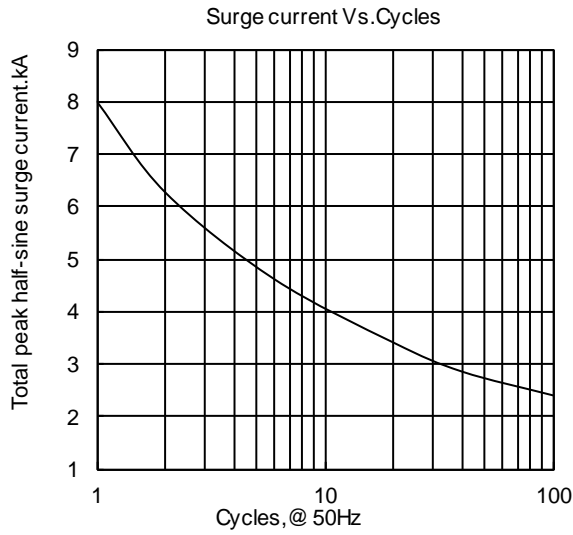


Fig. 7

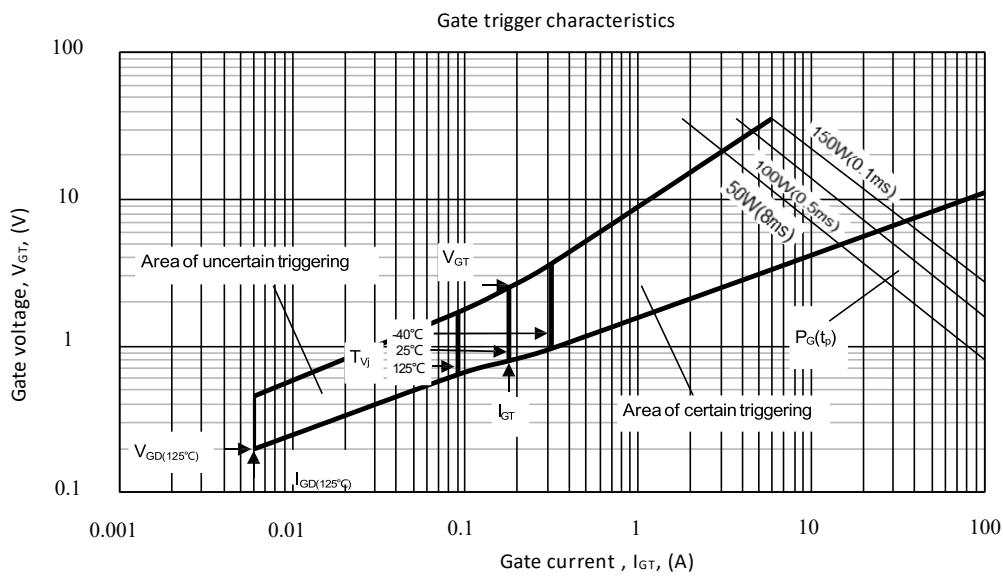
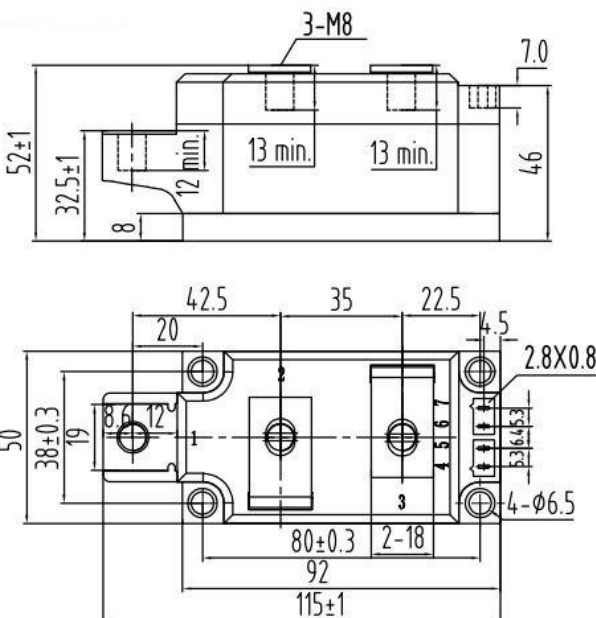


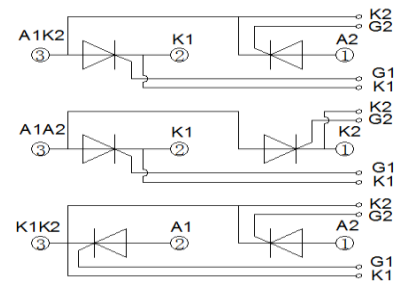
Fig8



MD200T**C

MR200T**C

MC200T**C



Unmarked dimensional tolerance : ±0.5mm

Nlps reserves the right to change specifications without notice.