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}	品名
800V	Mx330T80W
1000V	Mx330T100W
1200V	Mx330T120W
1400V	Mx330T140W
1600V	Mx330T160W
1800V	Mx330T180W

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min.	Typ.	Max.	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Single side cooled, T_C=55°C	125			330	A
$I_{T(RMS)}$	RMS on-state current					518	A
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			35	mA
I_{TSM}	Surge on-state current	V_R=60%V_{RRM}, t=10ms half sine,	125			10	kA
I^2t	I^2t for fusing coordination		125			500	10^3A^2s
V_{TO}	Threshold voltage		125			0.92	V
r_T	On-state slope resistance					0.95	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=990A	25			1.80	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		200	mA
V_{GT}	Gate trigger voltage			0.7		3.0	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. DC				0.110	℃/W
$R_{th(c-w)}$	Thermal resistance case to water	D.C. Single side cooled，per chip. (5L/min)				0.056	℃/W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(MAX)		3000			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	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				1340		g
Outline	M13						

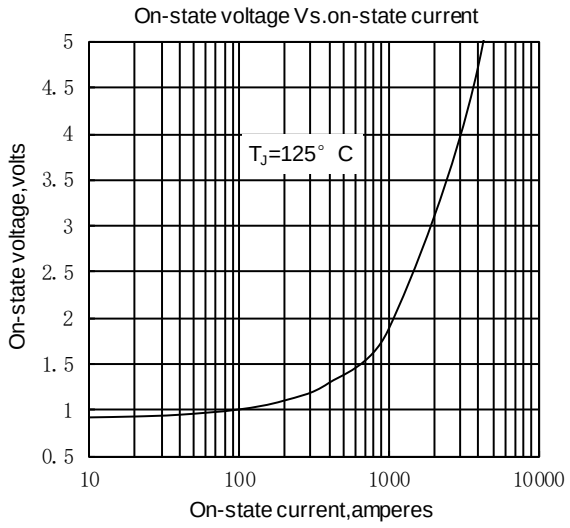


Fig.1

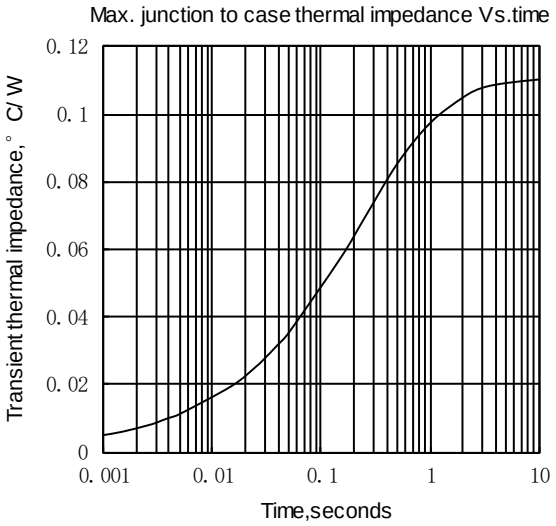


Fig.2

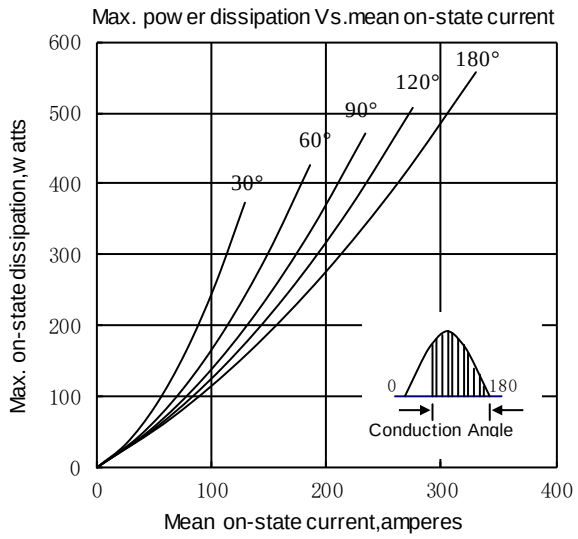


Fig.3

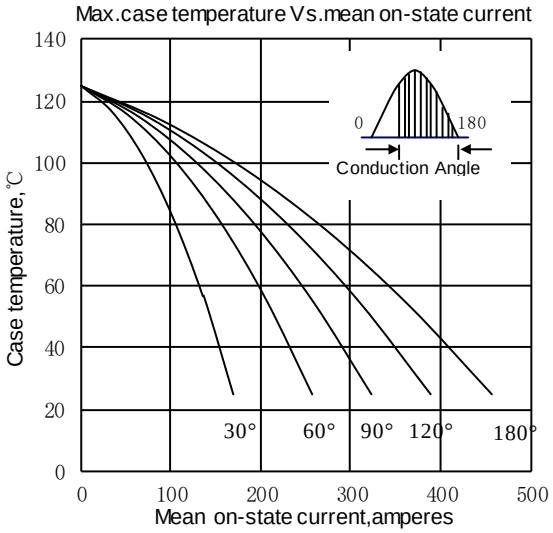


Fig.4

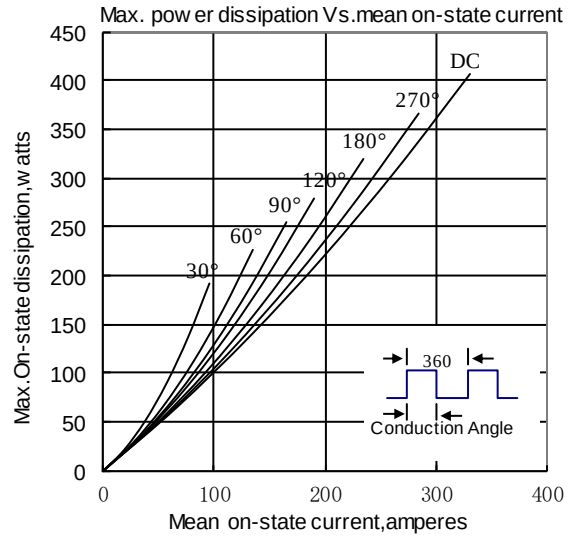


Fig.5

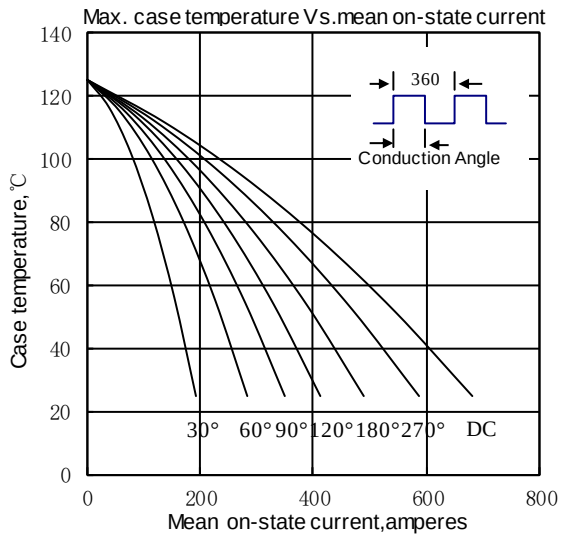


Fig.6

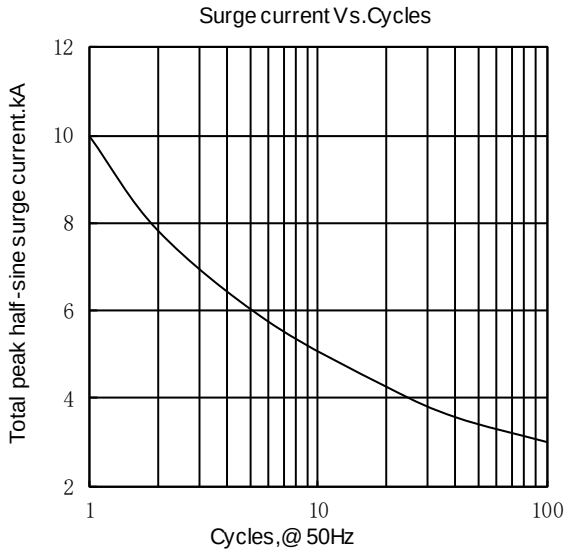


Fig.7

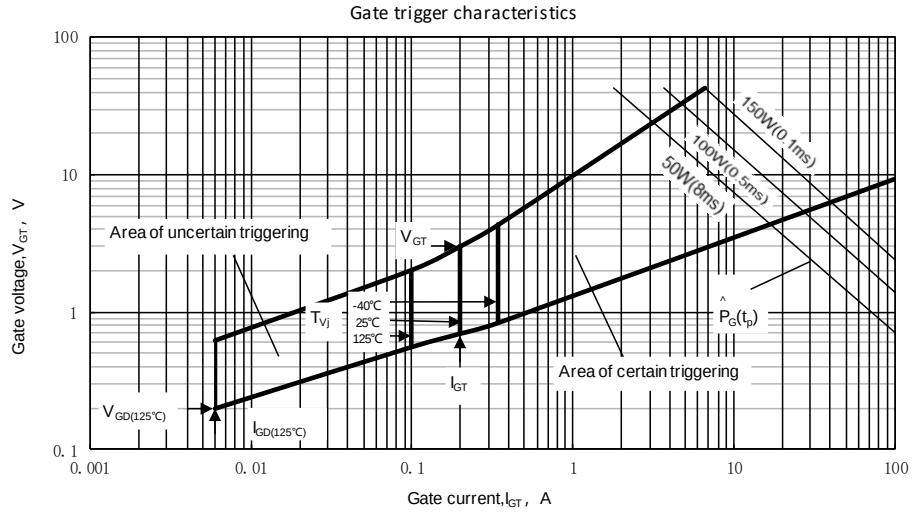
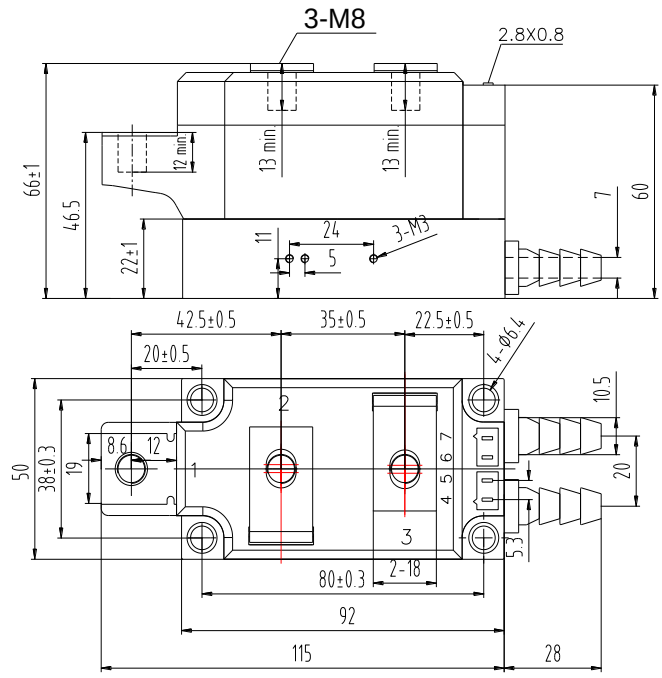
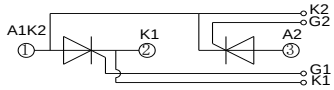


Fig8



MD330T**W



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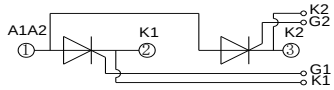

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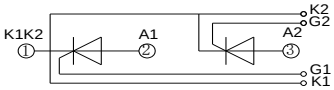

Unmarked dimensional tolerance：±0.5mm

NIps reserves the right to change specifications without notice.