

**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	Mx400T260W
2900V	2800V	Mx400T280W
3100 V	3000 V	Mx400T300W
3300 V	3200 V	Mx400T320W
3500 V	3400 V	Mx400T340W
3700 V	3600 V	Mx400T360W

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min.	Typ.	Max.	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Single side water cooled, $T_c=55^{\circ}\text{C}$	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			50	mA
$I_{TSM}$	Surge on-state current	10ms half sine wave $V_R=60\%V_{RRM}$	125			10.5	kA
$I^2t$	$I^2t$ for fusing coordination					551	$\text{A}^2\text{s} \times 10^3$
$V_{TO}$	Threshold voltage		125			1.12	V
$r_T$	On-state slope resistance					1.25	$\text{m}\Omega$
$V_{TM}$	Peak on-state voltage	$I_{TM}=1200\text{A}$		25		2.85	V
$dv/dt$	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	125			800	$\text{V}/\mu\text{s}$
$di/dt$	Critical rate of rise of on-state current	Gate source 1.5A $t_r \leq 0.5\mu\text{s}$ Repetitive	125			100	$\text{A}/\mu\text{s}$
$I_{GT}$	Gate trigger current	$V_A=12\text{V}$ , $I_A=1\text{A}$	25	30		200	mA
$V_{GT}$	Gate trigger voltage			0.8		3.0	V
$I_H$	Holding current			10		200	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.				0.073	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heat sink	D.C. Single side cooled, per chip.				0.040	$^{\circ}\text{C}/\text{W}$
$V_{iso}$	Isolation voltage	50Hz,R.M.S., $t=1\text{min}$ , $I_{iso}=1\text{mA}(\text{MAX})$		4000			V
$F_m$	Terminal connection torque(M10)				12.0		$\text{N}\cdot\text{m}$
	Mounting torque(M6)				6.0		$\text{N}\cdot\text{m}$
$T_{vj}$	Junction temperature			-40		125	$^{\circ}\text{C}$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}\text{C}$
$W_t$	Weight				1560		g
Outline		M14					

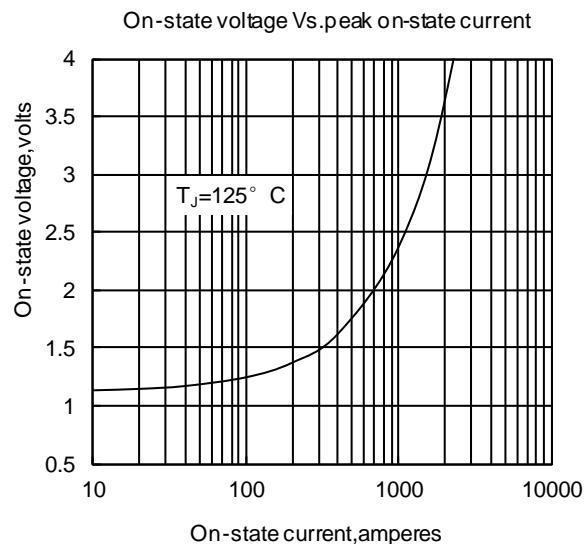


Fig1

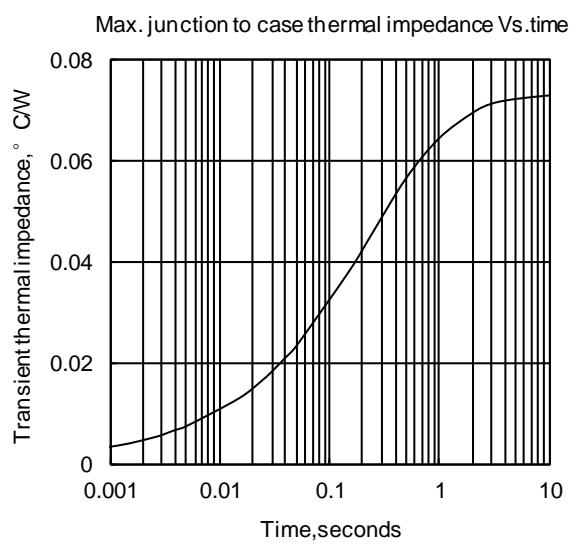


Fig2

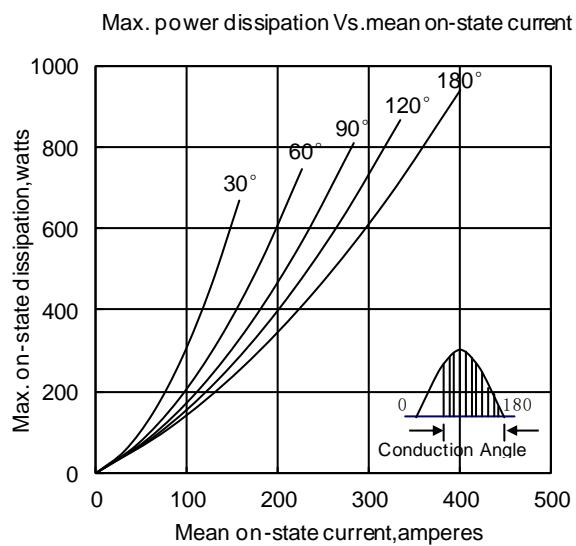


Fig3

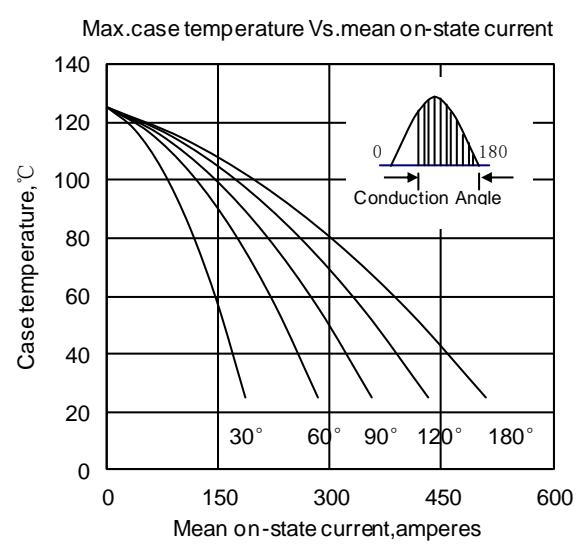


Fig4

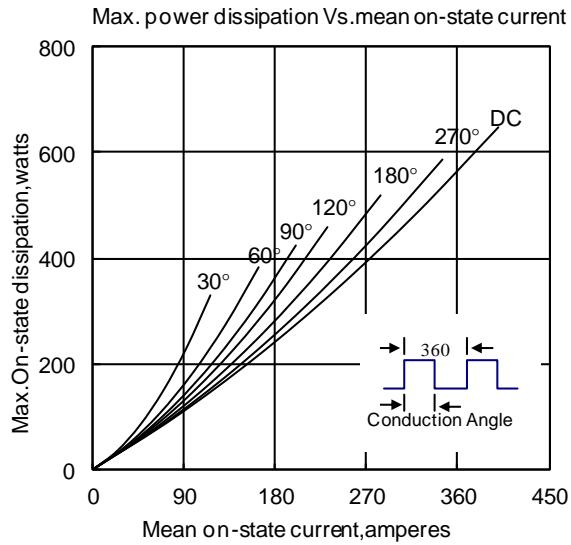


Fig5

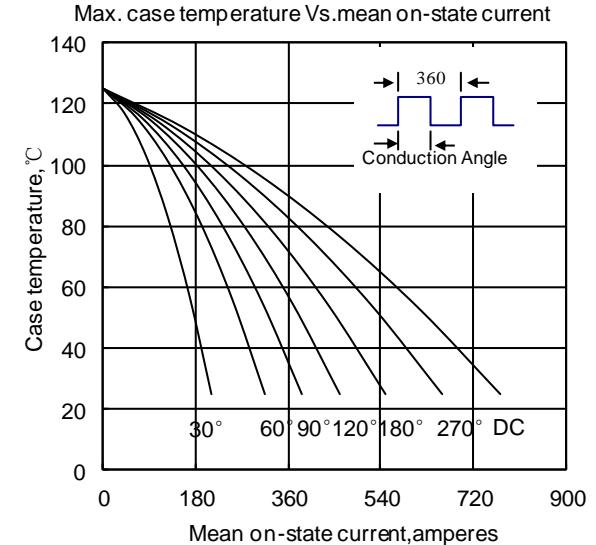


Fig6

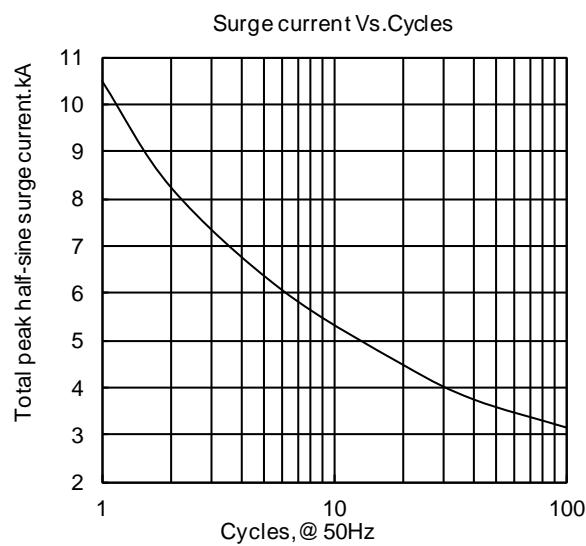


Fig7

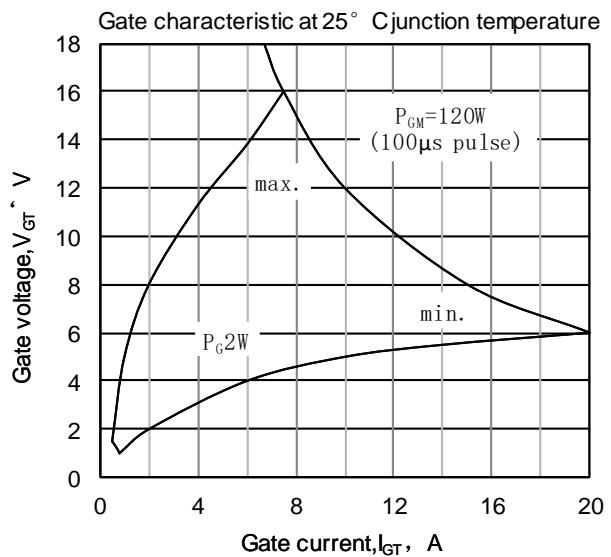


Fig8

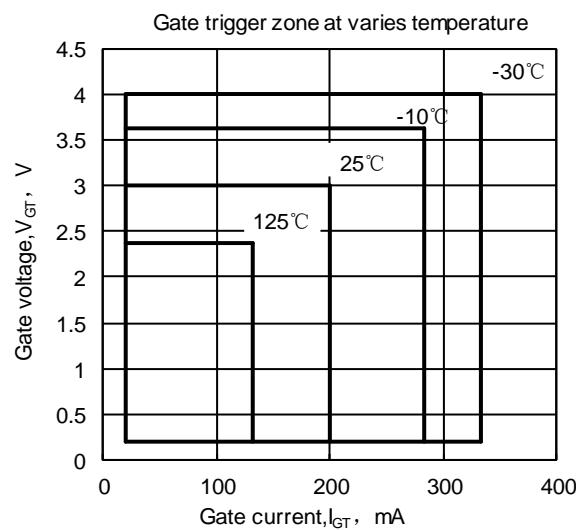
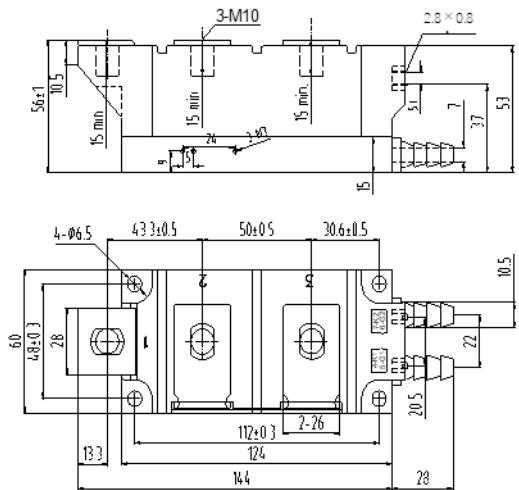


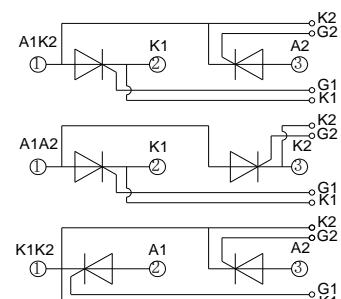
Fig9



MD400T\*\*W

MR400T\*\*W

MC400T\*\*W



Unmarked dimensional tolerance :  $\pm 0.5\text{mm}$