

**Features:**

- Isolated mounting base 3000V~
 - Solder joint technology with increased power cycling capability
 - Space and weight saving
- Typical Applications:**
- AC/DC Motor drives
 - Various rectifiers
 - DC supply for PWM inverter

V_{DRM}, V_{RRM}	Type & Outline		
	600V	800V	1000V
1200V	MTC26-06-224H3/224H3B	MTC26-08-224H3/224H3B	MTC26-10-224H3/224H3B
1400V	MTC26-12-224H3/224H3B	MTC26-14-224H3/224H3B	MTC26-16-224H3/224H3B
1600V	MTC26-18-224H3/224H3B		
1800V			

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, $T_c=85^\circ\text{C}$	125			26	A
$I_{T(RMS)}$	RMS on-state current		125			41	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			1.6	kA
I^2t	I^2t for fusing coordination					12.8	$10^3\text{A}^2\text{s}$
V_{TO}	Threshold voltage		125			0.75	V
r_T	On-state slope resistance					7.68	$\text{m}\Omega$
V_{TM}	Peak on-state voltage	$I_{TM}=80\text{A}$	25			1.55	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	125			1000	$\text{V}/\mu\text{s}$
di/dt	Critical rate of rise of on-state current	Gate source 1.5A $t_r \leq 0.5\mu\text{s}$ Repetitive	125			200	$\text{A}/\mu\text{s}$
I_{GT}	Gate trigger current	$V_A=12\text{V}$, $I_A=1\text{A}$	25	30		200	mA
V_{GT}	Gate trigger voltage			0.6		2.5	V
I_H	Holding current			10		250	mA
I_L	Latching current					1000	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	Single side cooled, per chip				0.90	$^\circ\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled, per chip				0.15	$^\circ\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz,R.M.S., $t=1\text{min}$, $I_{iso}=1\text{mA}(\text{MAX})$		3000			V
F_m	Thermal connection torque(M5)			2.5		4.0	$\text{N}\cdot\text{m}$
	Mounting torque(M6)			4.5		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				100		g
Outline		224H3、224H3B					

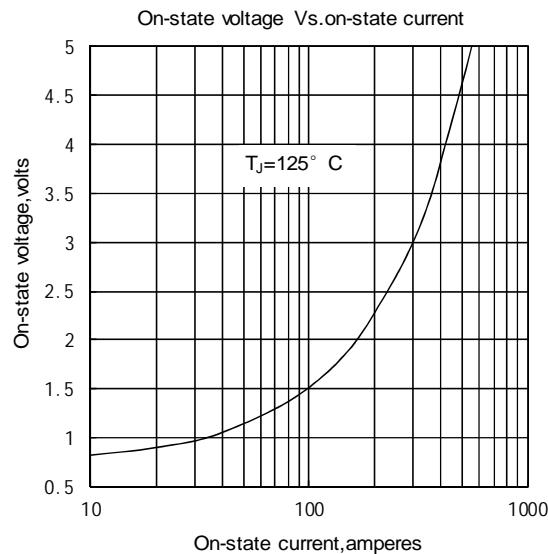


Fig.1

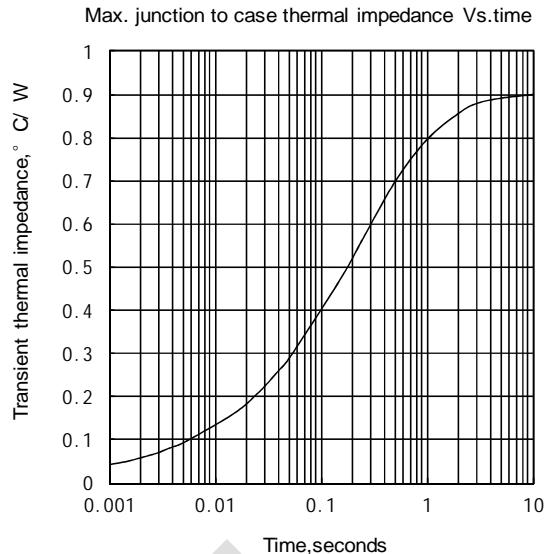


Fig.2

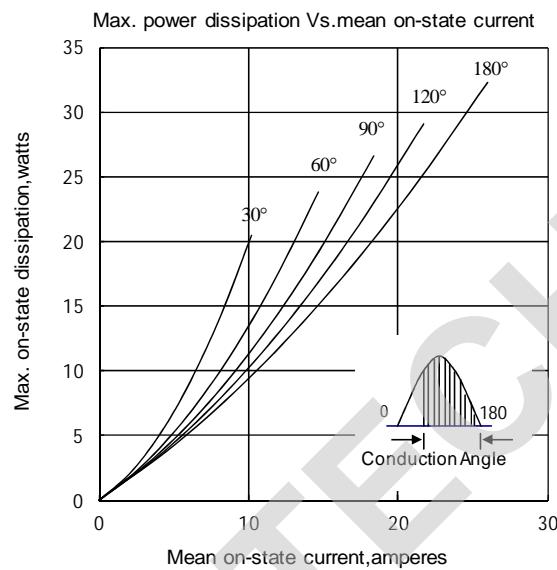


Fig.3

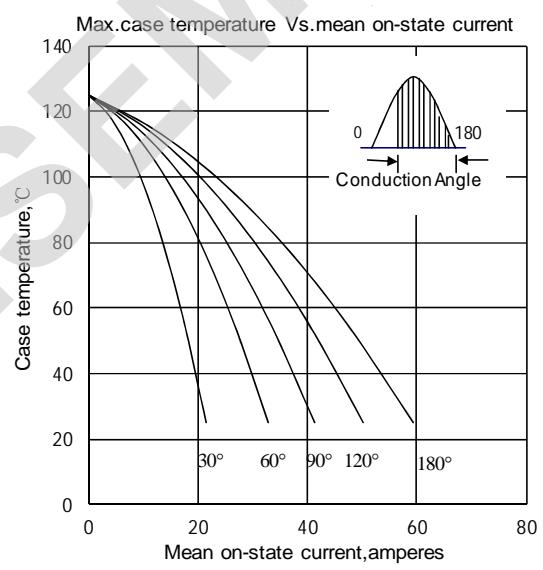


Fig.4

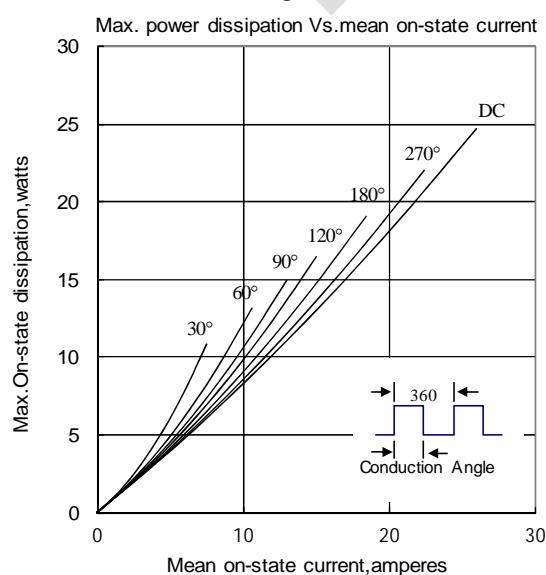


Fig.5

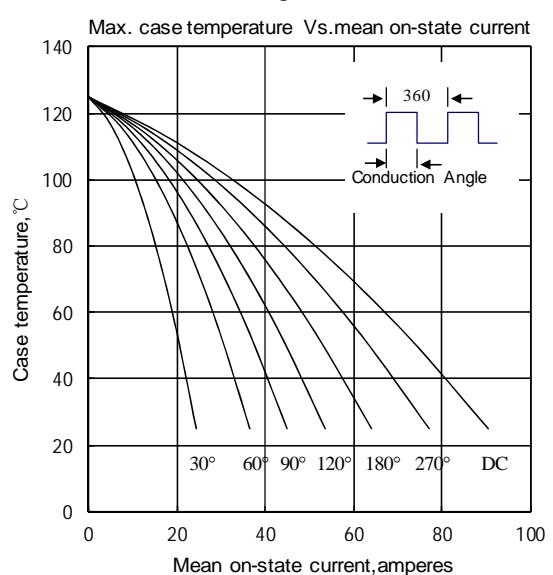


Fig.6

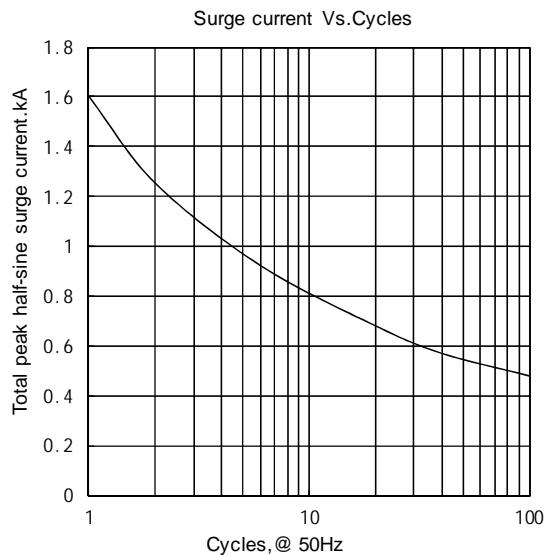


Fig.7

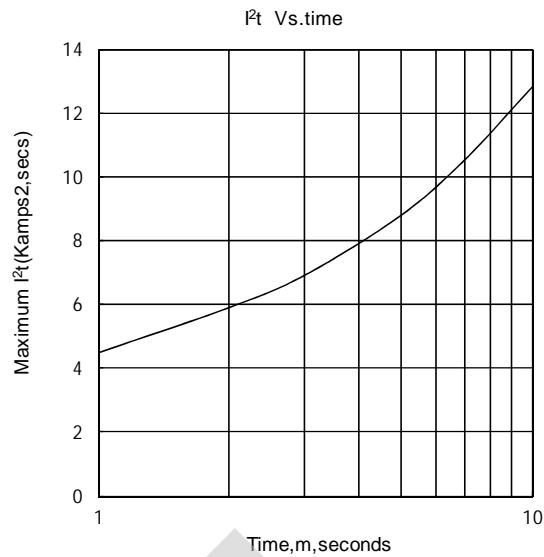


Fig.8

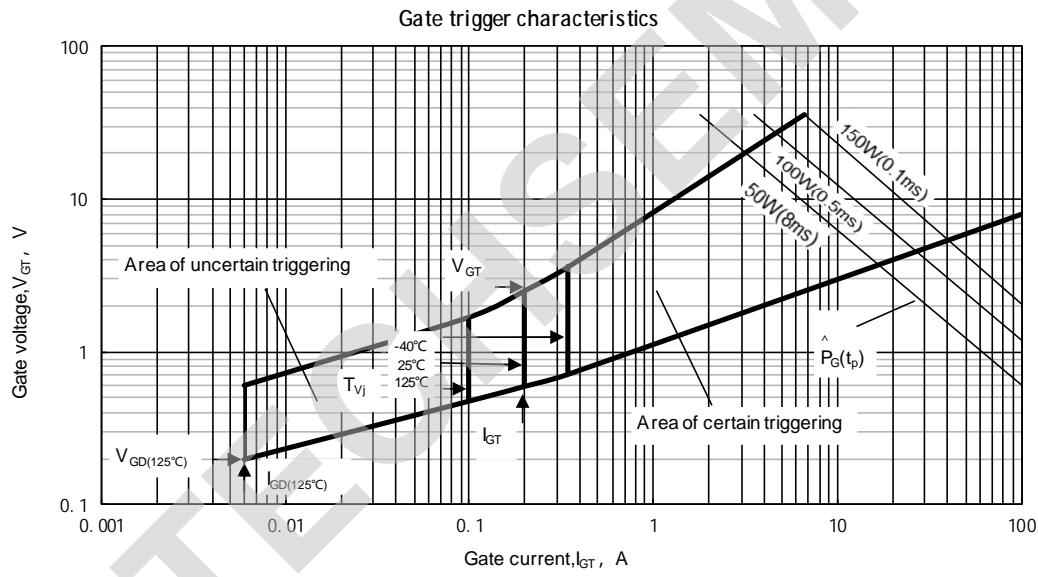
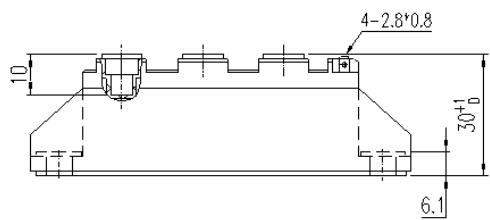
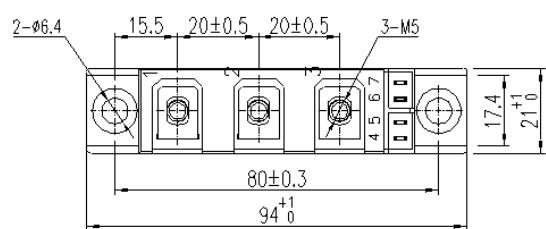
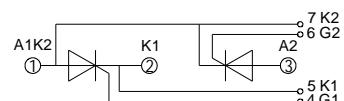


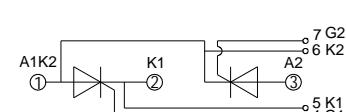
Fig.9

Outline:

MTC



MTC(B)

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