



# Thyristor Modules MTx26



$I_{T(AV)}$       **26A**  
 $V_{DRM}/V_{RRM}$     **600~1800V**  
 $I_{TSM}$              **$0.65A \times 10^3$**   
 $I^2t$                  **$2.10A^2 S \times 10^3$**

### Features:

- Isolated mounting base 2500V~
- Pressure contact technology with Increased power cycling capability
- Space and weight savings

### Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_f$ (°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
$V_{DRM}$ $V_{RRM}$	Repetitive peak off-state voltage Repetitive peak reverse voltage	$V_{DRM}$ & $V_{RRM}$ $t_p=10\text{ms}$ $V_{DSM}$ & $V_{RSM} = V_{DRM}$ & $V_{RRM}+100\text{V}$ respectively	125	600		1800	V
$I_{DRM}$ $I_{RRM}$	Repetitive peak current	at $V_{DRM}$ at $V_{RRM}$	125			8	mA
$I_{TSM}$	Surge on-state current	10ms half sine wave	125			0.65	KA
$I^2t$	$I^2t$ for fusing coordination	$V_R=60\%V_{RRM}$				2.10	$A^2s \times 10^3$
$V_{TO}$	Threshold voltage		125			0.85	V
$r_T$	On-state slop resistance					9.68	mΩ
$V_{TM}$	Peak on-state voltage	$I_{TM}=80\text{A}$	25			1.69	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 $t_r \leq 0.5\mu\text{s}$ Repetitive	125			50	A/μs
$I_{GT}$	Gate trigger current			30		100	mA
$V_{GT}$	Gate trigger voltage	$V_A=12\text{V}$ , $I_A=1\text{A}$	25	0.8		2.5	V
$I_H$	Holding current			20		120	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				0.950	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.2	°C /W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$ , $I_{iso}:1\text{mA(MAX)}$		2500			V
$F_m$	Thermal connection torque(M5)				4.0		N-m
	Mounting torque(M6)				6.0		N-m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				115		g
<b>Outline</b>							

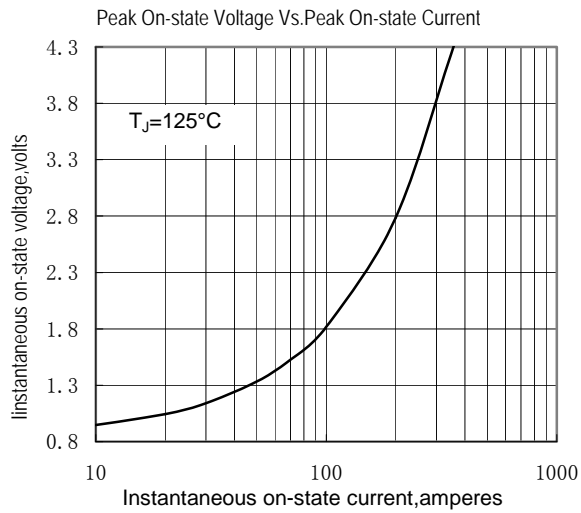


Fig.1

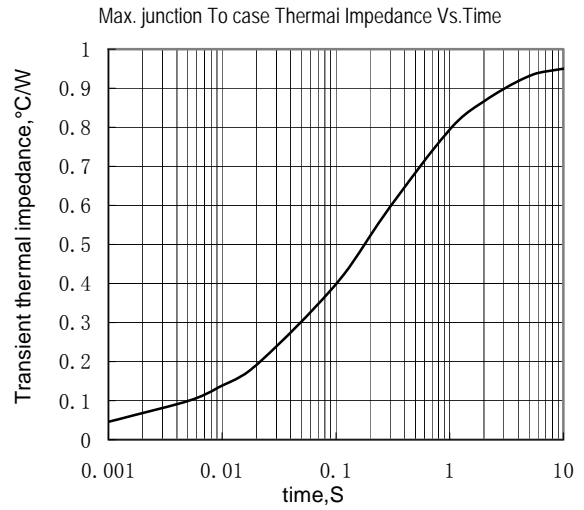


Fig.2

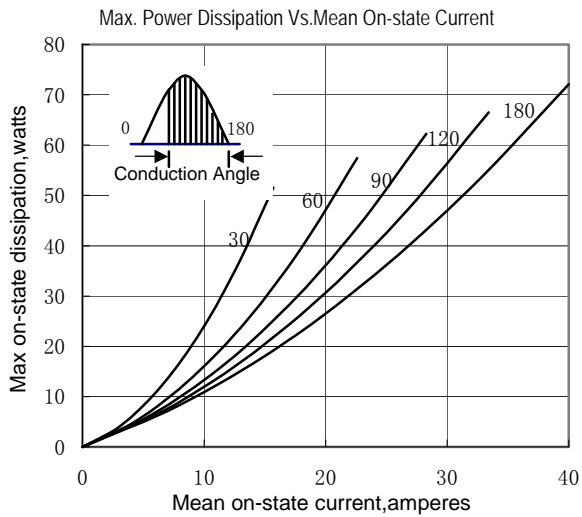


Fig.3

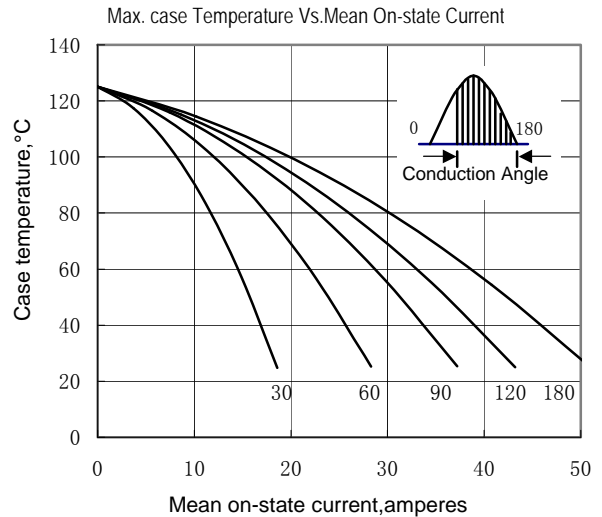


Fig.4

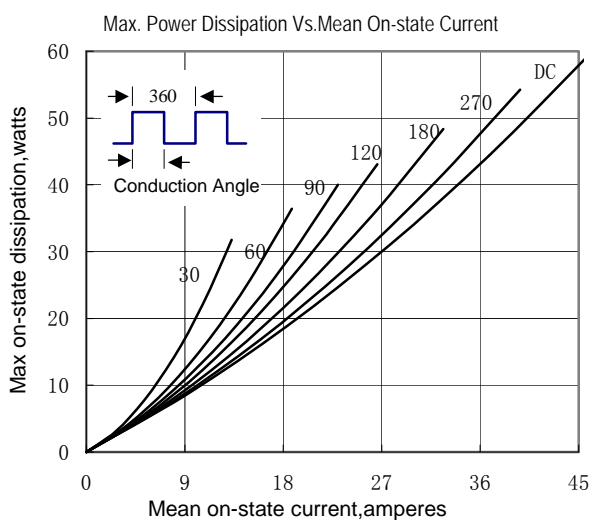


Fig.5

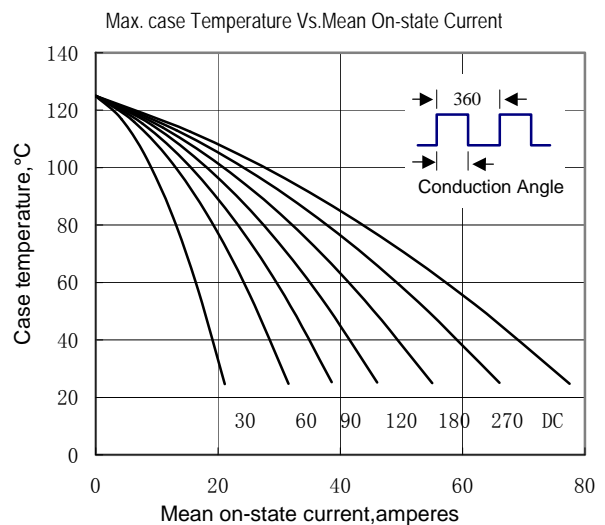


Fig.6

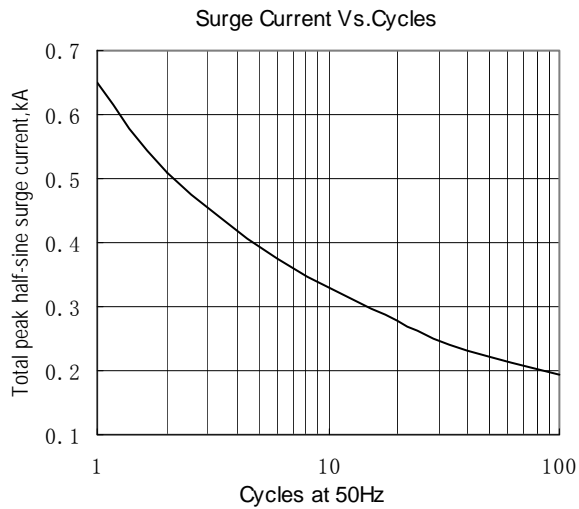


Fig.7

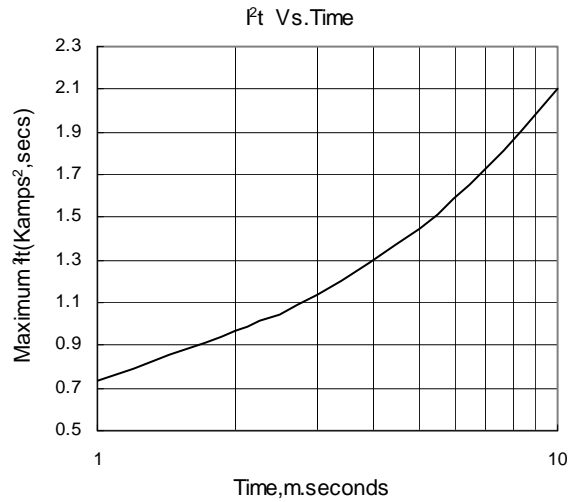


Fig.8

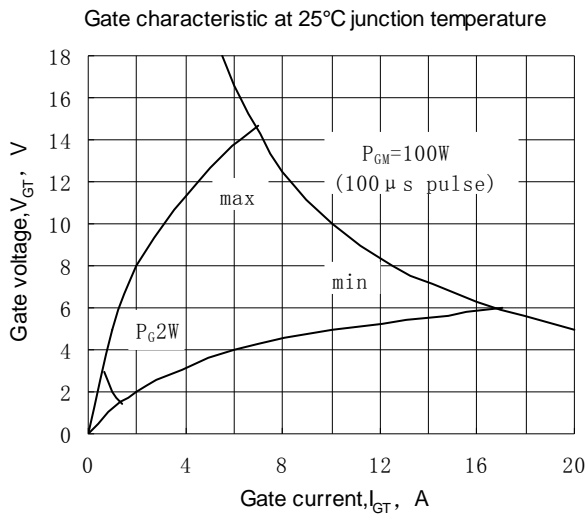


Fig.9

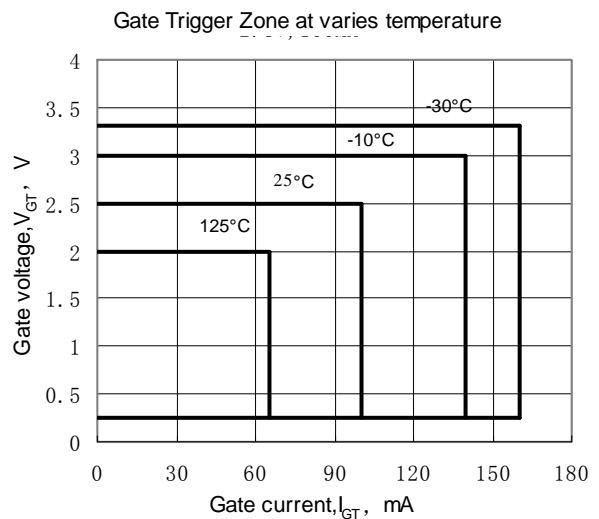


Fig.10

**Outline:**

