



MTC/MTA/MTK/MTX70A THYRISTOR MODULE

Features

Isolated mounting base 2500V
Increased power cycling capability
Space and weight savings

$I_{T(AV)}$	70 A
V_{DRM}/V_{RRM}	400-2600 V
I_{TSM}	1.60KA
I^2T	13KA ² S

Application

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

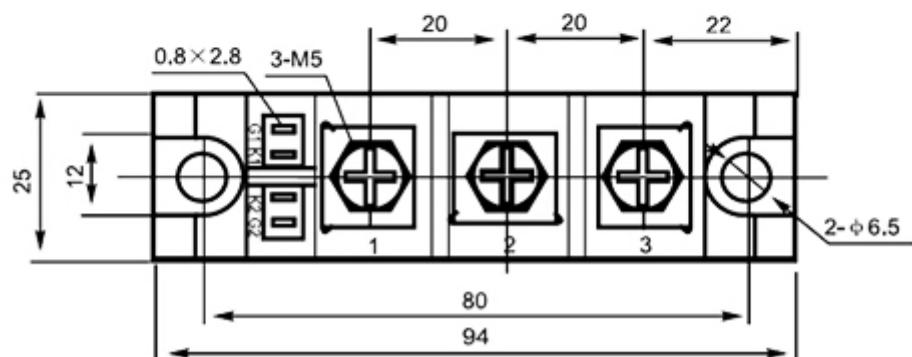
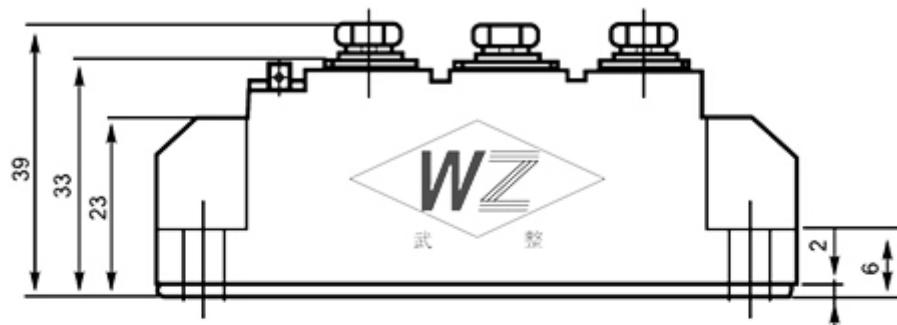
Symb.	parameter	Test Conditions	$T_{J(C)}$	Value	Unit
Current Ratings	$I_{T(AV)}$	average on-state current 180 °half sine wave 50Hz Single side cooled Tc=85 °C	125	70	A
	$I_{T(RMS)}$	RMS on-state current	125	110	A
	I_{TSM}	Surge on-state current	125	1.60	KA
	I^2t	I2T for fusing coordination	125	13.0	KA ² S
Characteristics	V_{DRM}	Repetitive peak off-state voltage	125	400-2600	V
	V_{RRM}	Repetitive peak reverse voltage			
	I_{DRM}	Repetitive peak current	125	Max.12	mA
	I_{RRM}				
	V_{TO}	Threshold voltage	125	Max.0.90	V
	V_{TM}	Peak on-state voltage	25	Max.1.93	V
	r_T	On-state slop resistance	125	Max.4.64	mΩ
Dynamic Parameters	I_H	Holding current	25	20-150	ma
	dv/dt	Critical rate of rise of off-state voltage	125	Max.800	V/μs
	di/dt	Critical rate of rise of on-state current	125	Max.50	A/μs
Gate Parameters	I_{GT}	Gate trigger current	25	30-150	mA
	V_{GT}	Gate trigger voltage	25	0.8-3.0	V
	V_{GD}	Non-trigger gate voltage	125	Min.0.2	V

Thermal & Mechanical Data

Symb.	parameter	Test Conditions	Value	Unit
$R_{th(j-c)}$	Thermal resistance Junction to case	single side cooled	Max.0.450	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink	single side cooled	Max.0.2	°C/W
V_{iso}	isolated voltage		Min.3600	V
F_m	Terminal connection torque(M5)		Min.4	N·m
	Mounting force (M6)		Max.6	N·m
T_{stg}	Stored temperature		-40~+125	°C
W_t	Weight		115	g

Outline:

M2



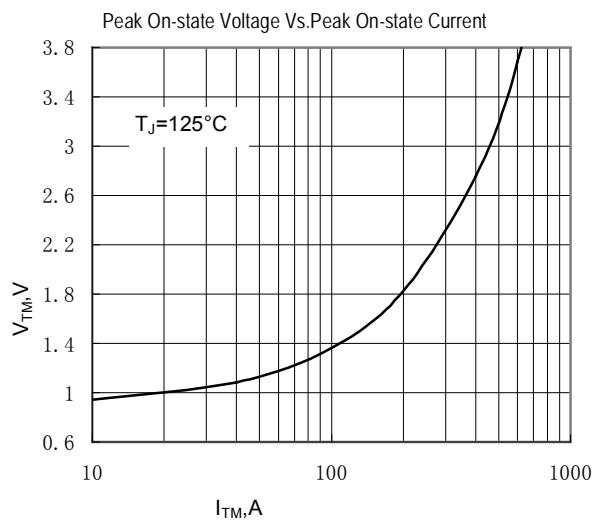


Fig.1

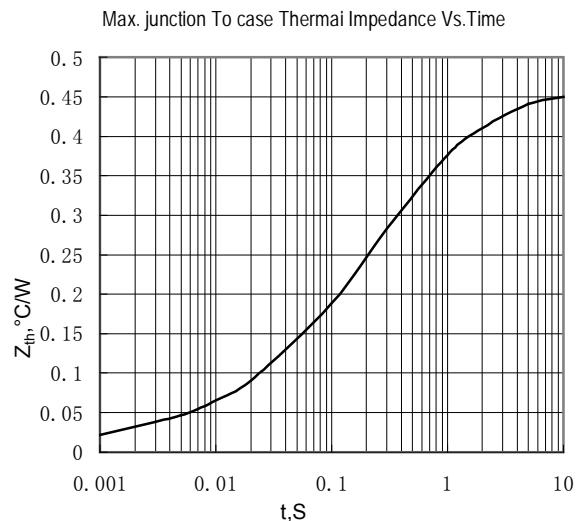


Fig.2

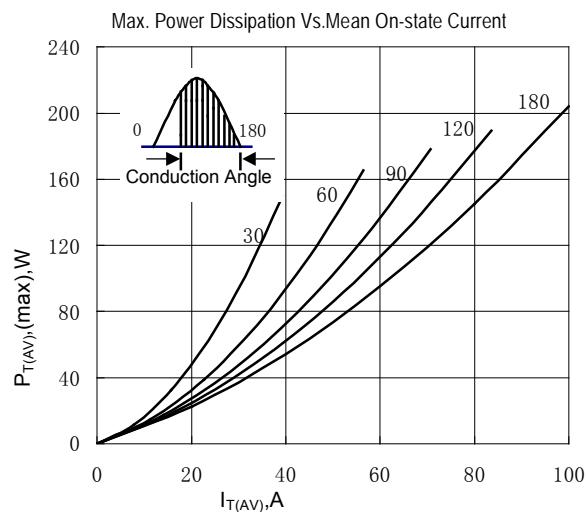


Fig.3

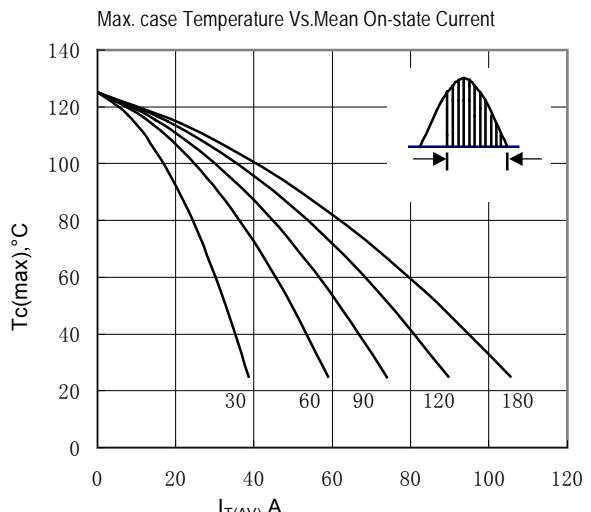


Fig.4

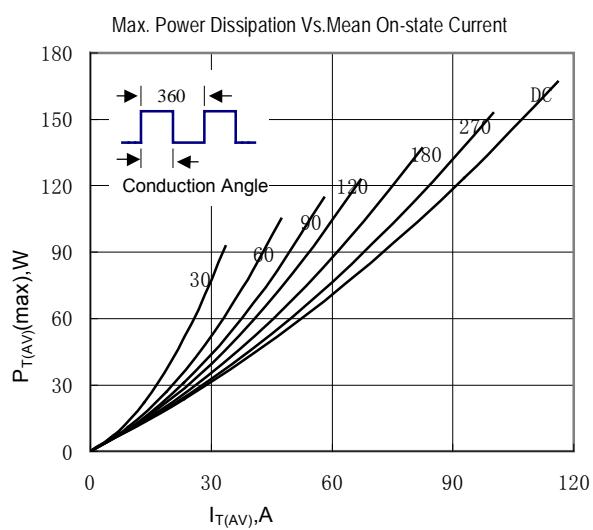


Fig.5

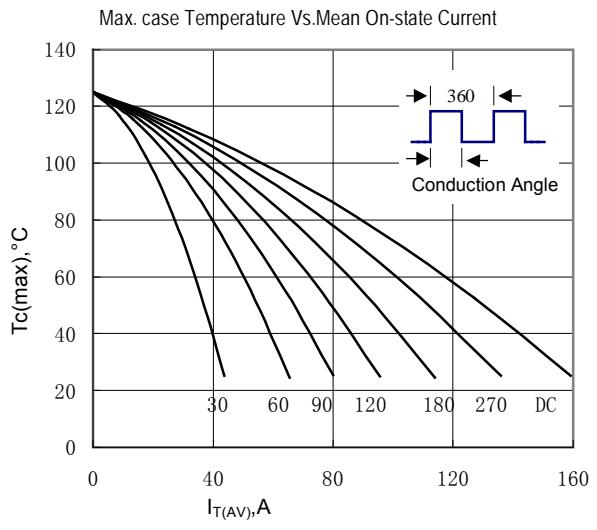


Fig.6

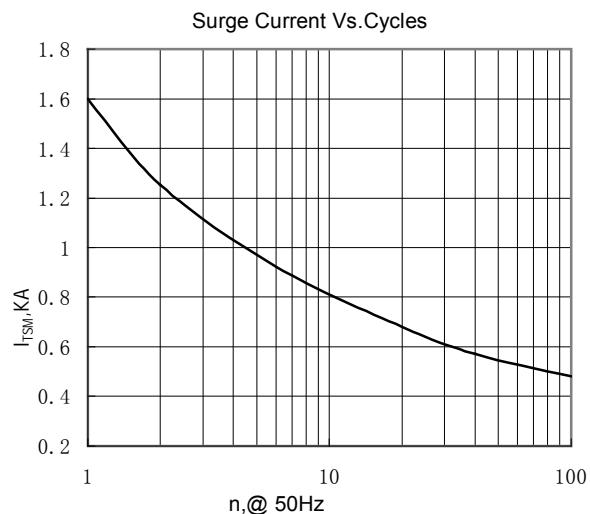


Fig.7

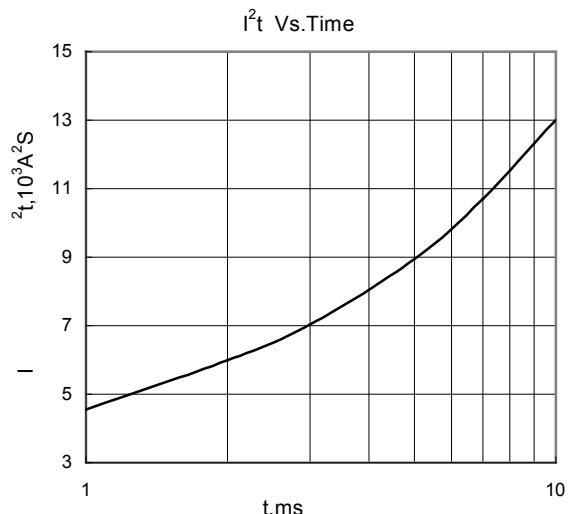


Fig.8

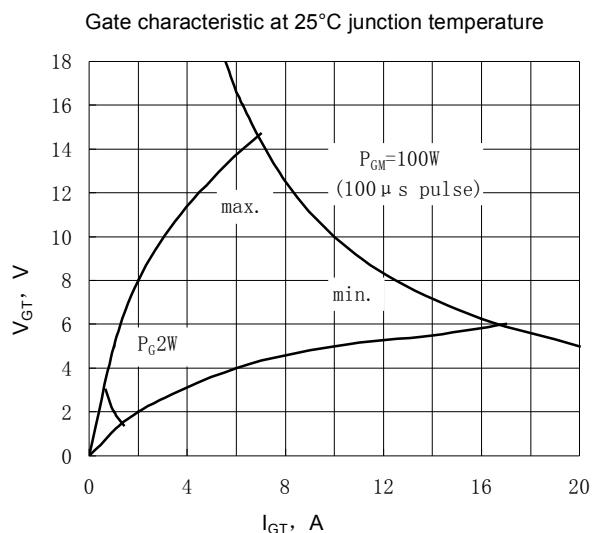


Fig.9

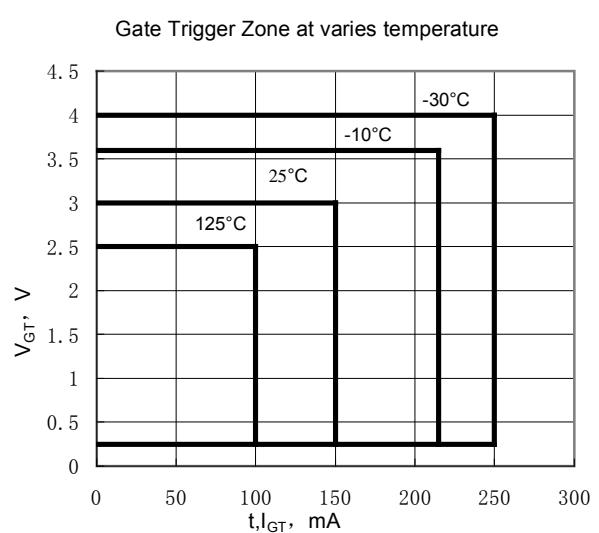


Fig.10

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