



MFG/MFY200A

Non-Insulated Type Thyristor Diode Module

Features

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

$I_{T(AV)}$	200A
V_{DRM}/V_{RRM}	400-2600 V
I_{TSM}	7.0KA
I^2T	250KA ² S

Application

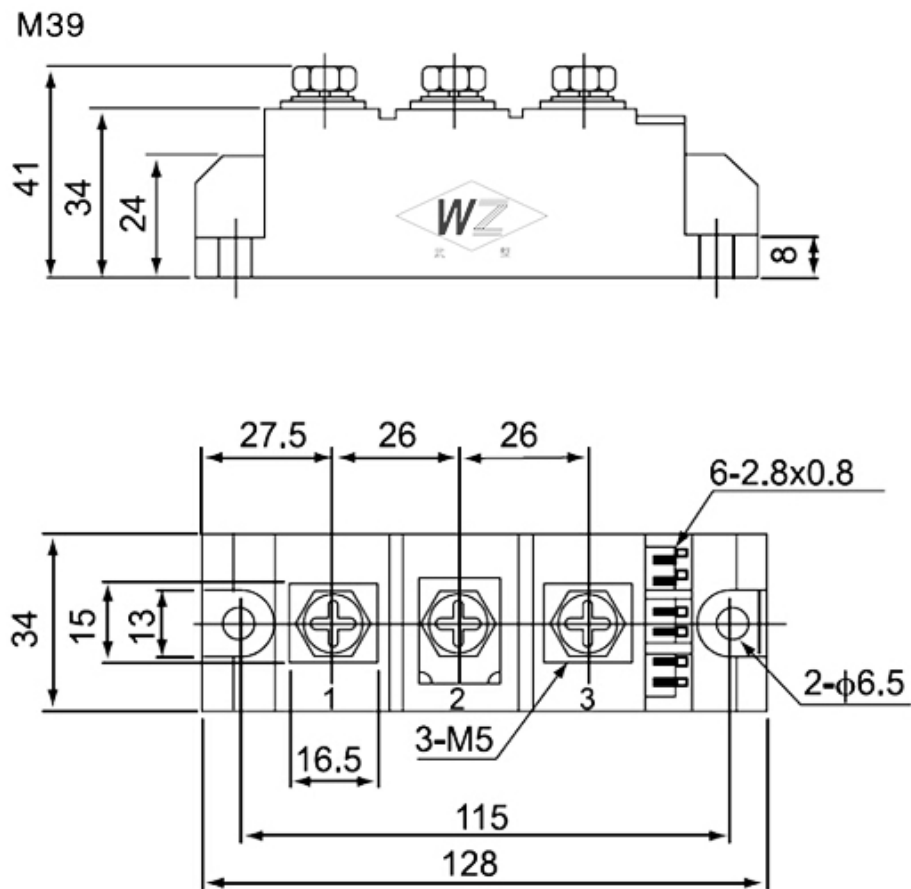
AC/DC Motor drives
 Various rectifiers
 DC supply for PWM inverter

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 $T_c=110^\circ C$	140	200	A
	$I_{T(RMS)}$	RMS on-state current		140	314	A
	I_{TSM}	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	140	7.0	KA
	I^2t	I ² T for fusing coordination		140	250	KA ² S
Characteristics	V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	$V_{DRM}\&V_{RRM}$ tp=10ms $V_{DSM}\&V_{RSM}=V_{DRM}\&V_{RRM}+200V$	140	400-2600	V
	I_{DRM} I_{RRM}	Repetitive peak current	$V_{DM}=V_{DRM}$ $V_{RM}=V_{RRM}$	140	Max.15	mA
	V_{TO}	Threshold voltage		140	Max.0.80	V
	V_{TM}	Peak on-state voltage	$I_{TM}=600A$	25	Max.1.39	V
	r_T	On-state slop resistance		140	Max.0.70	mΩ
	I_H	Holding current	$V_A=12V, I_A=1A$	25	20-200	ma
Dynamic Parameters	dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	140	Max.800	V/μs
	di/dt	Critical rate of rise of on-state current	$I_{TM}=600A$, gate trigger current amplitude $I_{GM}=1.5A$, gate tigger current rise time $t_r \leq 1\mu s$	140	Max.100	A/μs
Gate Parameters	I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$	25	30-150	mA
	V_{GT}	Gate trigger voltage		25	1.0-2.5	V
	V_{GD}	Non-trigger gate voltage	$V_{DM}=67\%V_{DRM}$	140	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.0.130	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink	single side cooled	Max.0.04	°C/W
F_m	Terminal connection torque(M5)		Min.12	N m
	Mounting force (M6)		Max.6.0	N m
T_{stg}	Stored temperature		-40+125	°C
W_t	Weight		680	g

Outline:



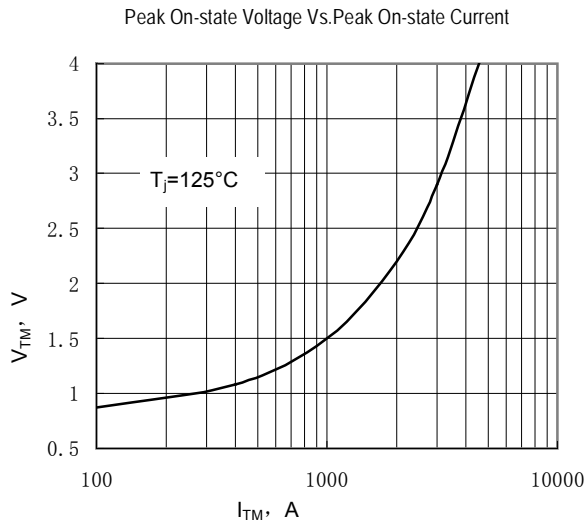


Fig.1

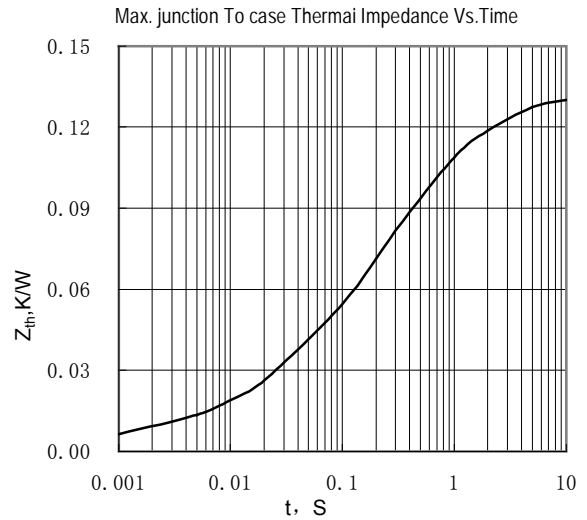


Fig.2

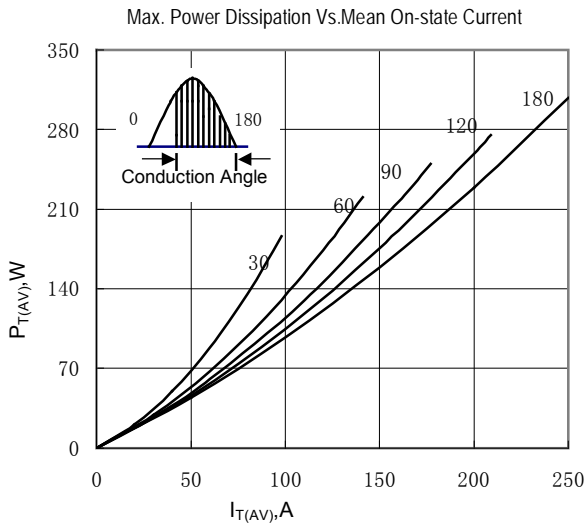


Fig.3

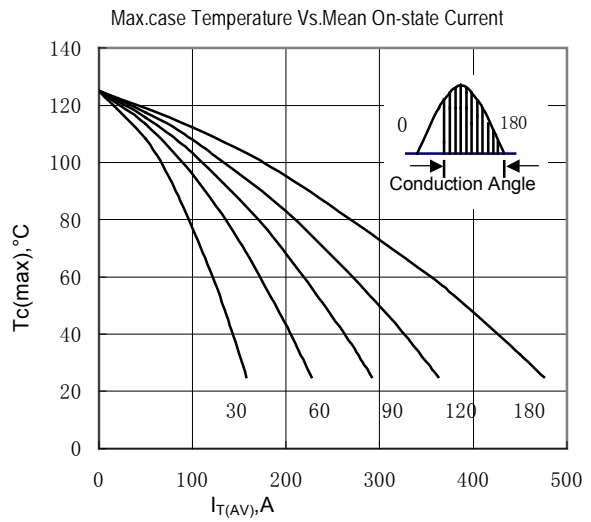


Fig.4

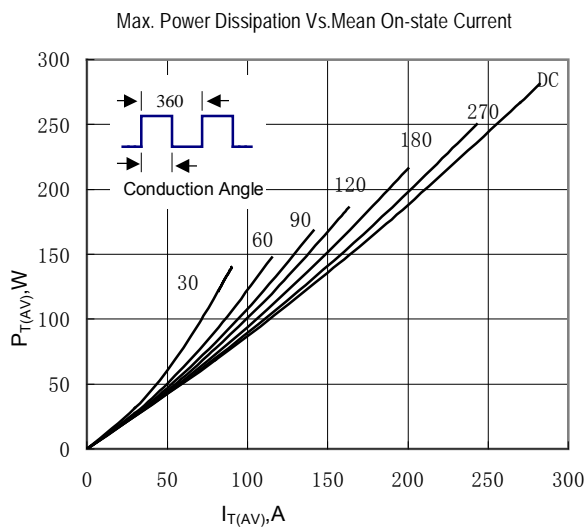


Fig.5

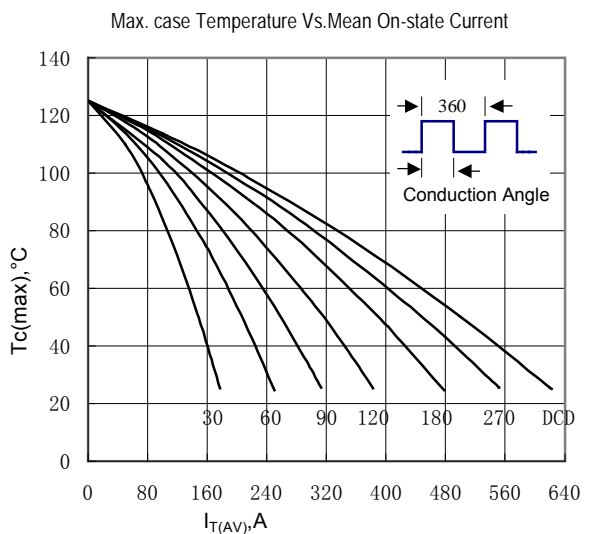


Fig.6

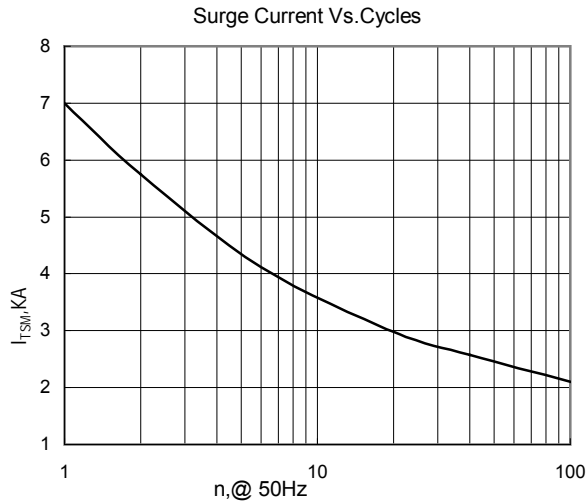


Fig.7

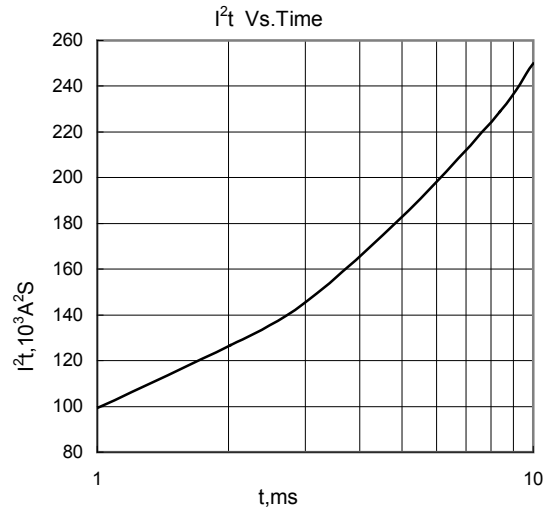


Fig.8

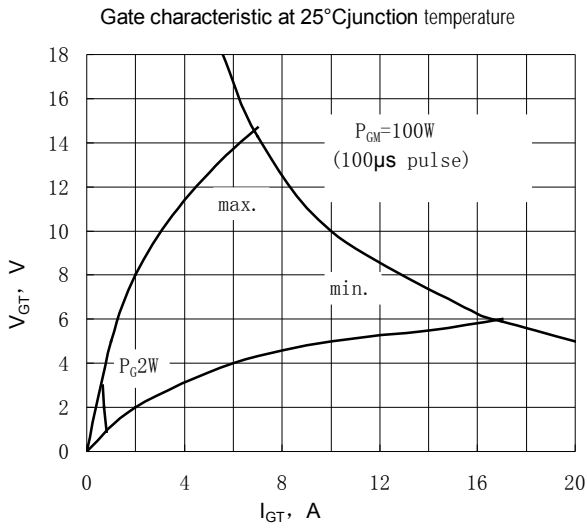


Fig.9

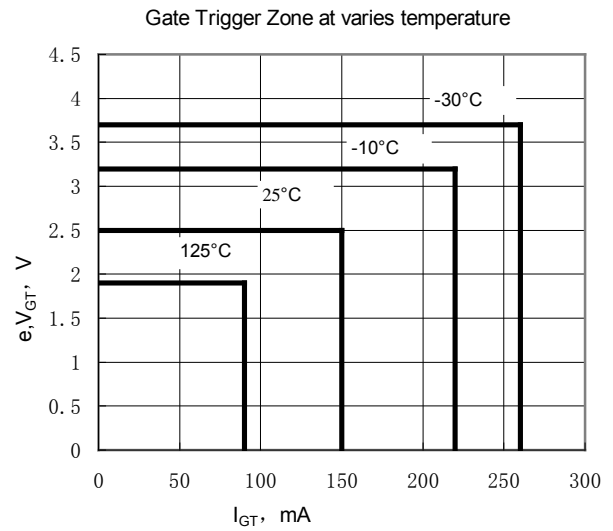


Fig.10

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