



MDG/MDY300A

Non-Insulated Type Diode Module

Features

Isolated mounting base 2500V
Compact structure and light weight savings
Full crimping structure, super temperature characteristics and power cycle capability

$I_{F(AV)}$	300A
V_{DRM}/V_{RRM}	400-2600 V
I_{FSM}	11.5KA
I^2T	674 KA ² S

Application

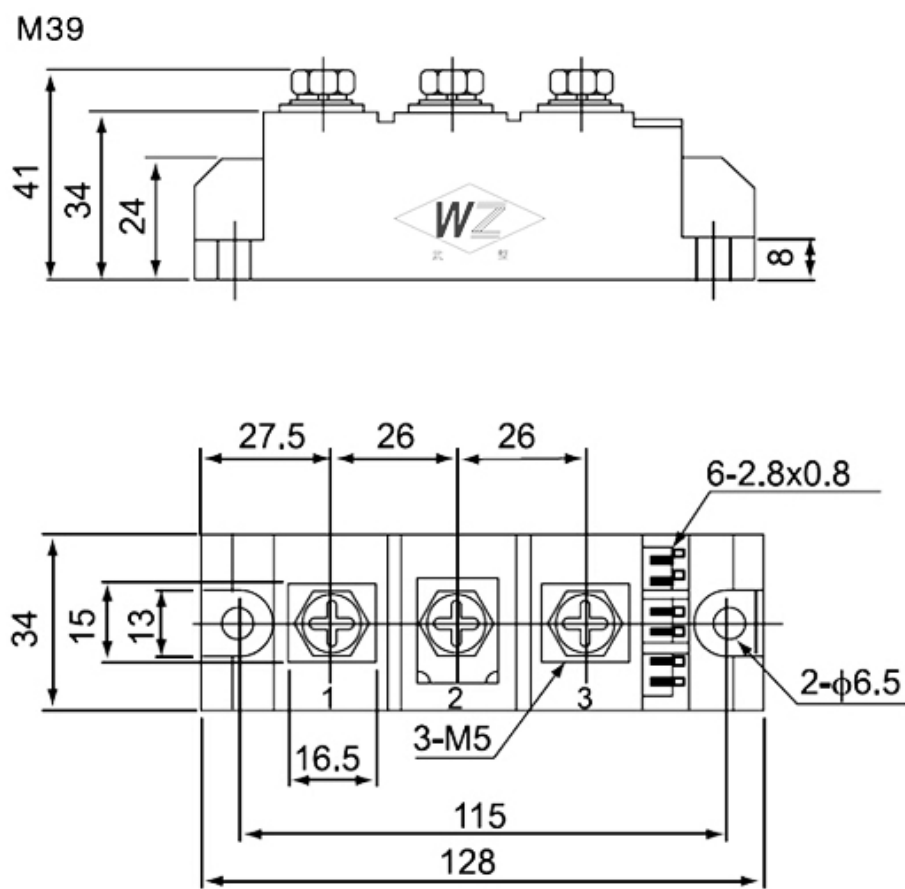
AC/DC Motor Control
Various rectifying power suppliers
Industry Heating Regulation
Light Dimming
Contactless Switches
Motor Soft Start
Static Var Compensation/SVR
Welding Device
Converter
UPS Power Supplies
Battery Charge and Discharge

Symb.		parameter	Test Conditions	$T_J(^{\circ}C)$	Value	Unit
Current Ratings	$I_{F(AV)}$	average on-state current	180 °half sine wave 50Hz Single side cooled $T_c=100^{\circ}C$	150	300	A
	$I_{F(RMS)}$	RMS on-state current		150	471	A
	I_{FSM}	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	150	11.5	KA
	I^2t	I ² T for fusing coordination		150	674	KA ² S
Characteristics	V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM}=V_{RRM}+200V$	150	400-2600	V
	I_{RRM}	Repetitive peak reverse current	at V_{RRM}	150	Max.25	mA
	V_{FO}	Threshold voltage		150	Max.0.80	V
	V_{FM}	Peak on-state voltage	$I_{FM}=900A$	25	Max.1.50	V
	r_F	On-state slop resistance		150	Max.0.64	mΩ

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, 180 °half sine wave	Min.0.04	°C/W
F_m	Thermal connection torque(M5)		Typ.12.0	N m
	Mounting force (M6)		Typ.6.0	N m
T_{stg}	Stored temperature		-40-+125	°C
W_t	Weight		680	g

Outline:



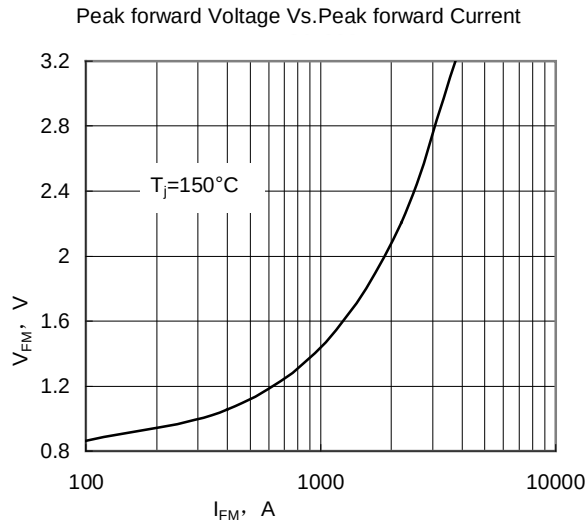


Fig.1

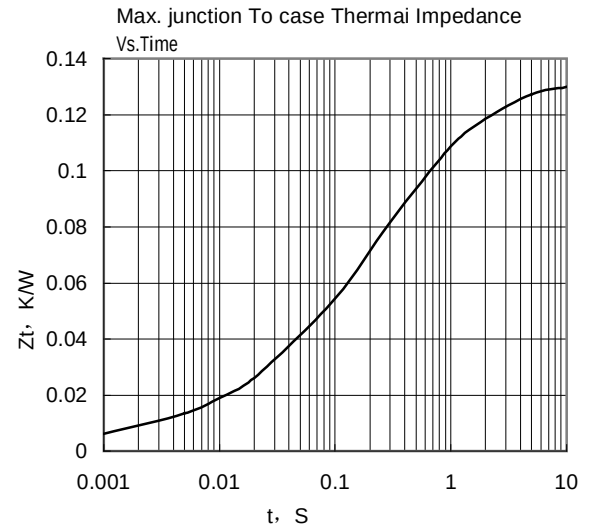


Fig.2

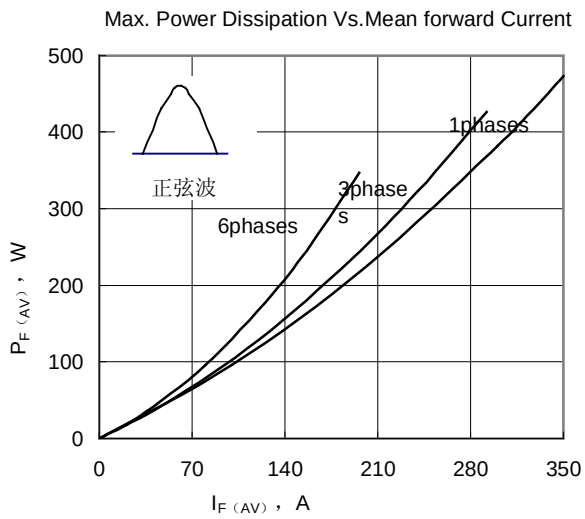


Fig.3

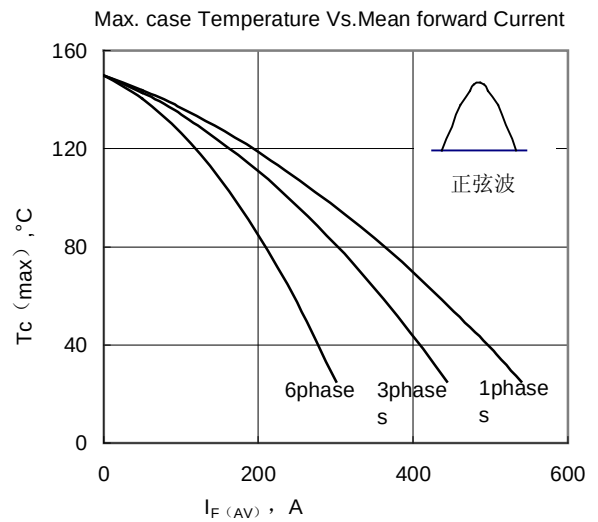


Fig.4

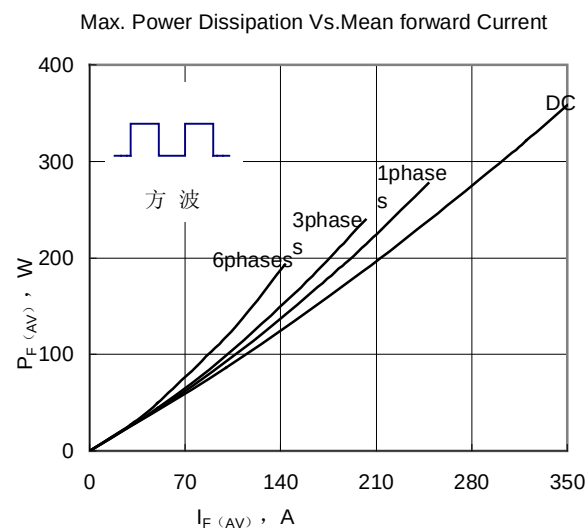


Fig.5

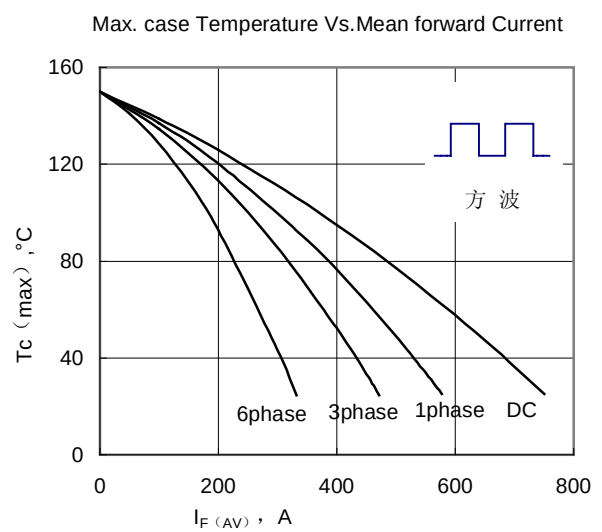


Fig.6

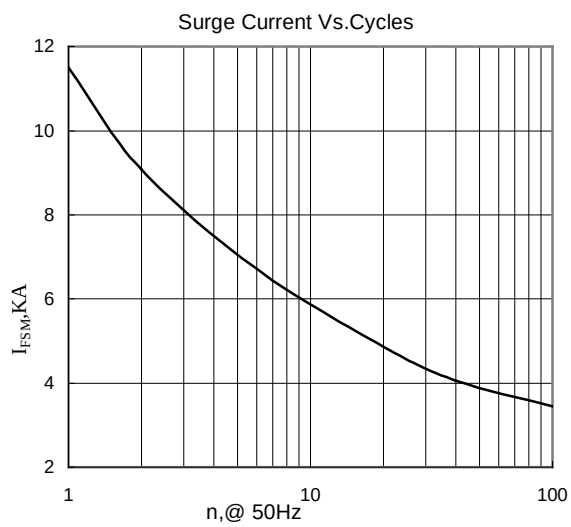


Fig.7

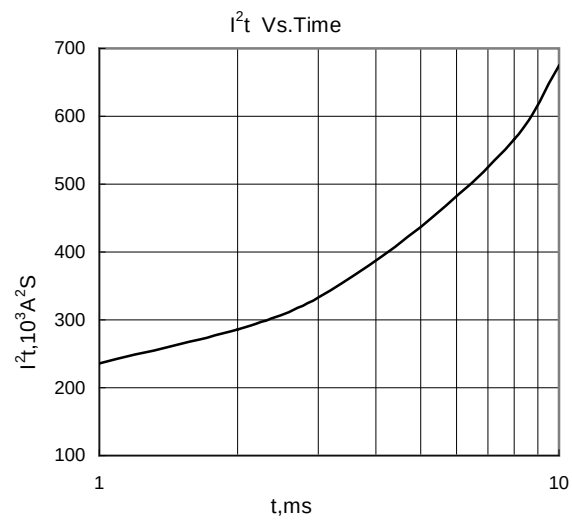


Fig.8

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