

MDC/MDA/MDK/MDX55A

DIODE MODULE



Features

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

Application

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

$I_{F(AV)}$	55 A
V_{RRM}	400-2600 V
I_{FSM}	1.3KA
I^2t	8.6KA ² S

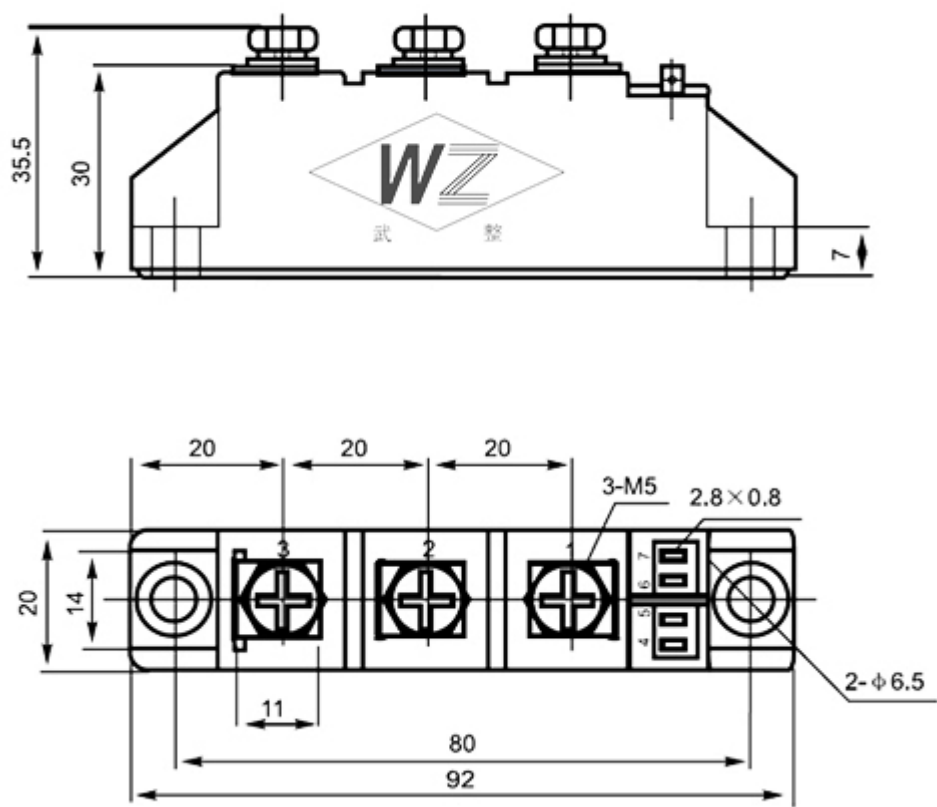
Symb.		parameter	Test Conditions	$T_J(^{\circ}C)$	Value	Unit
Current Tatings	$I_{F(AV)}$	average forward current	180 °half sine wave 50Hz Single side cooled, $T_C=100^{\circ}C$	150	55	A
	$I_{F(RMS)}$	RMS forward current		150	86	A
	I_{FSM}	Surge forward current	10ms half sine wave	150	1.30	KA
	I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$	150	8.6	KA ² S
Characteristics	V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM}=V_{RRM}+200V$	150	400-2600	V
	I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	150	Max.8	Ma
	V_{FM}	Peak on-state voltage	$I_{FM}=170A$	25	Max.1.45	V
	V_{FO}	Threshold voltage		150	Max.0.80	V
	r_F	Forward slop resistance		150	Max.3.47	mΩ

Thermal &Mechanical Data

Symb.	parameter	Test Conditions	Value	Unit
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180 °sine wave, single side cooled	Max.0.700	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180 °sine wave, single side cooled	Max.0.2	°C/W
V_{iso}	Isolated voltage	50Hz,R.M.S,t=1min,Iiso:1mA(max)	Min.2500	V
F_m	Terminal connection torque(M5)		Typ.4	N m
	Mounting force (M6)		Typ.6	N m
T_{stg}	Stored temperature		-40-+125	°C
W_t	Weight		115	g

Outline:

M1



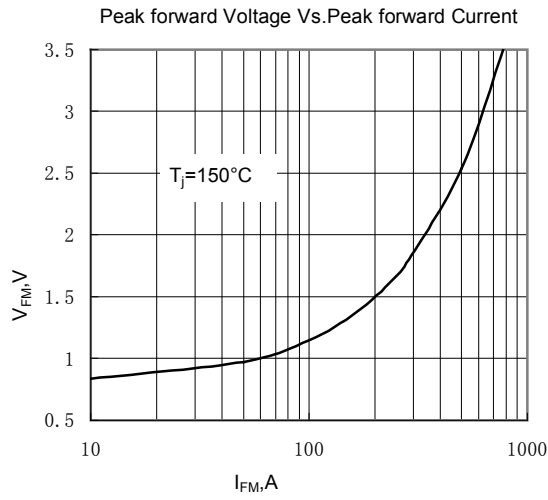


Fig.1

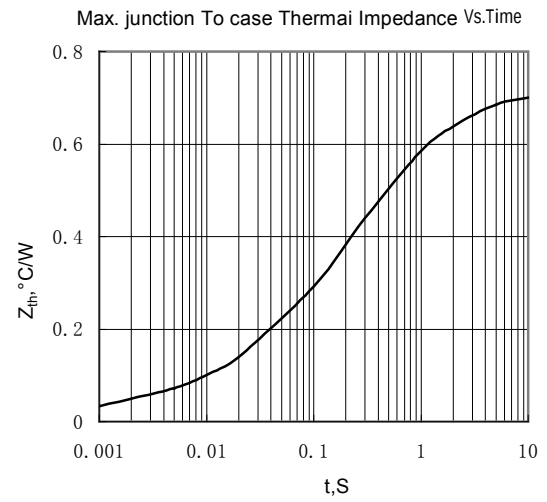


Fig.2

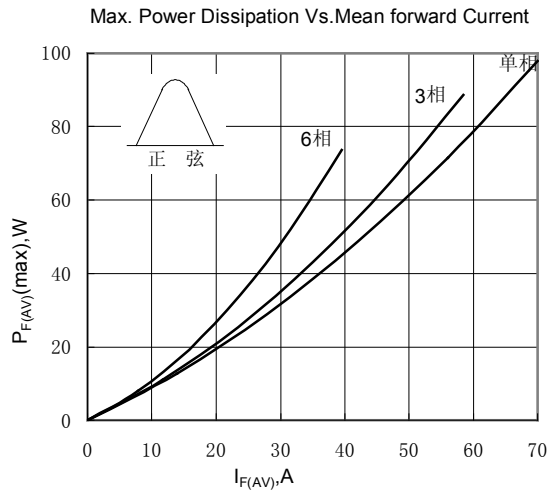


Fig.3

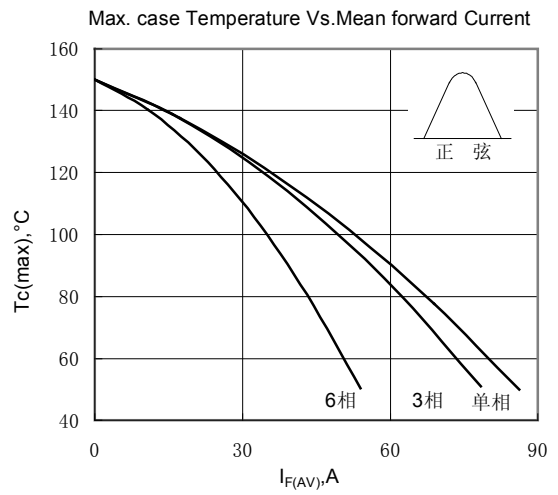


Fig.4

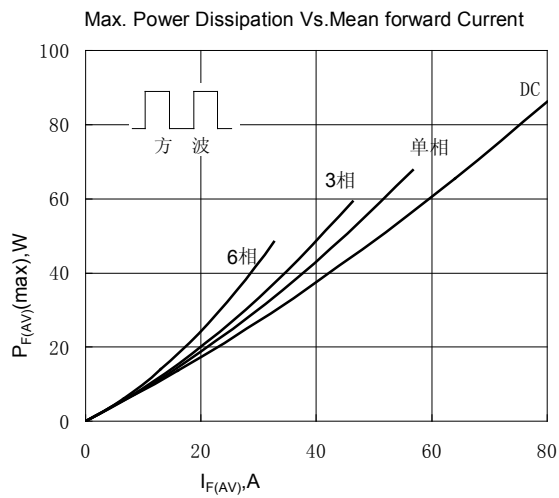


Fig.5

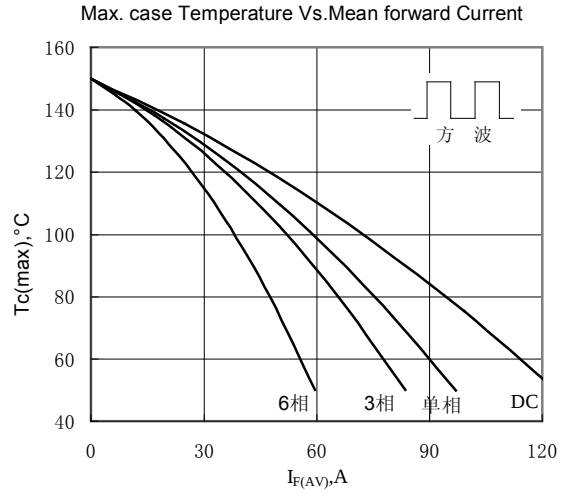
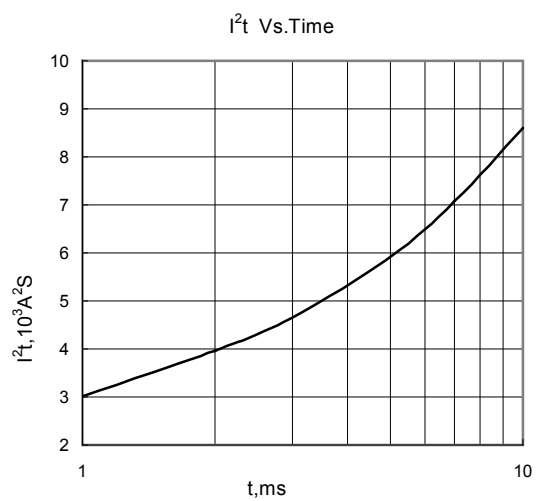
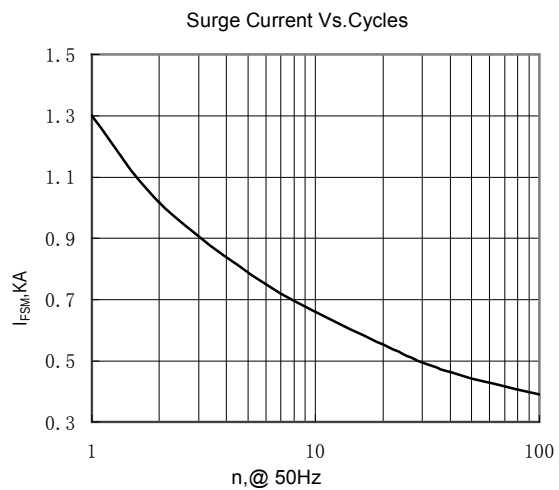


Fig.6



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