



# MDG/MDY160A

## Non-Insulated Type Diode Module

### Features

Non-insulated type, Baseboard servers as the public electrode  
 Full crimping structure, super temperature characteristics and power cycle capability  
 Lower forward voltage drop

$I_{F(AV)}$	160A
$V_{DRM}/V_{RRM}$	400-2600 V
$I_{FSM}$	6.6KA
$I^2T$	222KA <sup>2</sup> 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	$T_{J(c)}$	Value	Unit
Current Ratings	$I_{F(AV)}$	average on-state current	180° half sine wave 50Hz Single side cooled $T_c=115^\circ C$	150	160	A
	$I_{F(RMS)}$	RMS on-state current		150	251	A
	$I_{FSM}$	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	150	6.60	KA
	$I^2t$	I <sup>2</sup> T for fusing coordination		150	222	KA <sup>2</sup> 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	$V_{RM}=V_{RRM}$	150	Max.12	mA
	$V_{FO}$	Threshold voltage		150	Max.0.80	V
	$V_{FM}$	Peak on-state voltage	$I_{FM}=480A$	25	Max.1.35	V
	$r_F$	On-state slop resistance		150	Max.1.08	mΩ



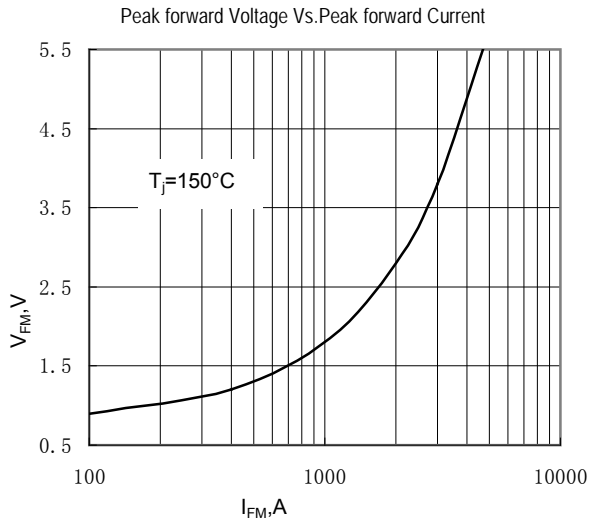


Fig.1

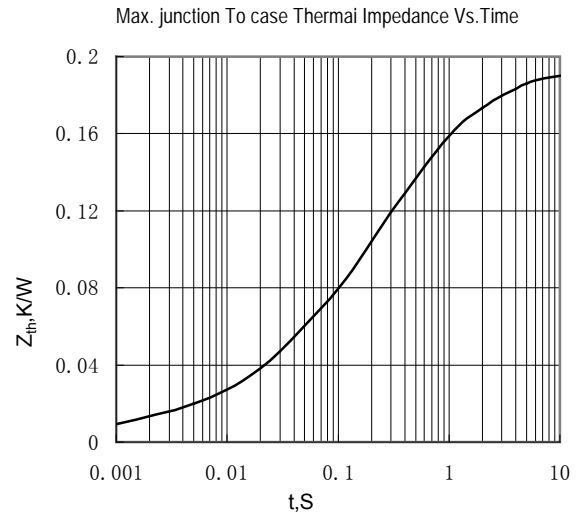


Fig.2

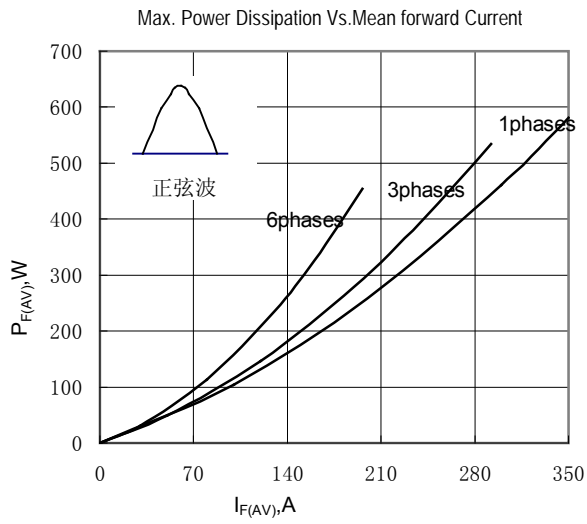


Fig.3

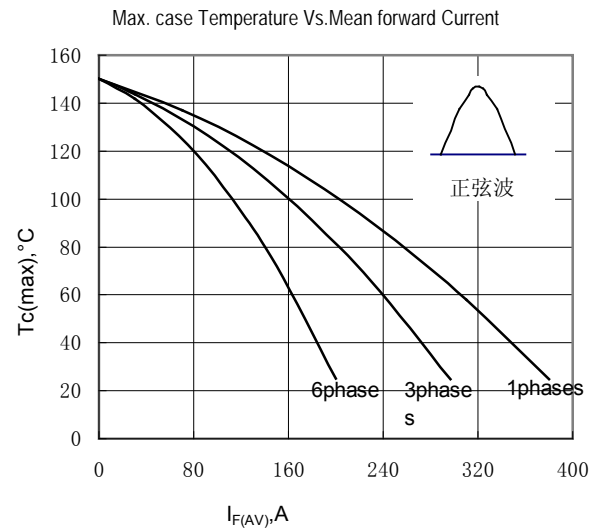


Fig.4

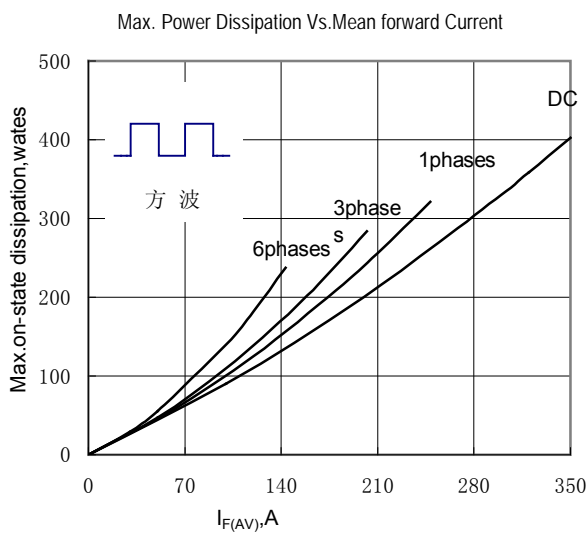


Fig.5

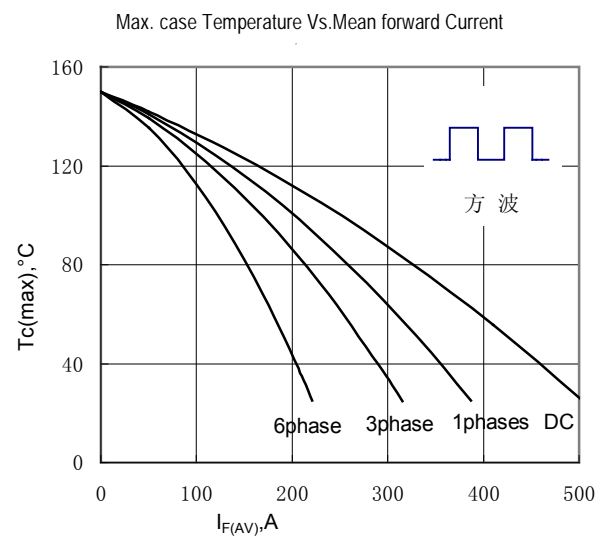


Fig.6

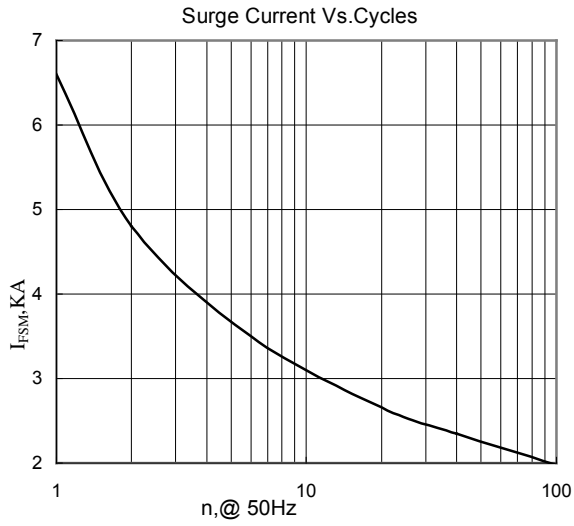


Fig.7

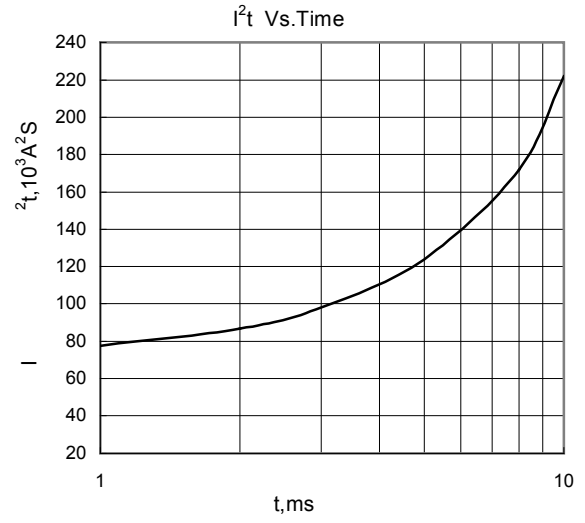


Fig.8

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