



MDG/MDY200A

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

| | |
|-------------------|----------------------|
| $I_{F(AV)}$ | 200A |
| V_{DRM}/V_{RRM} | 400-2600 V |
| I_{FSM} | 8.2KA |
| I^2T | 343KA ² S |

Application

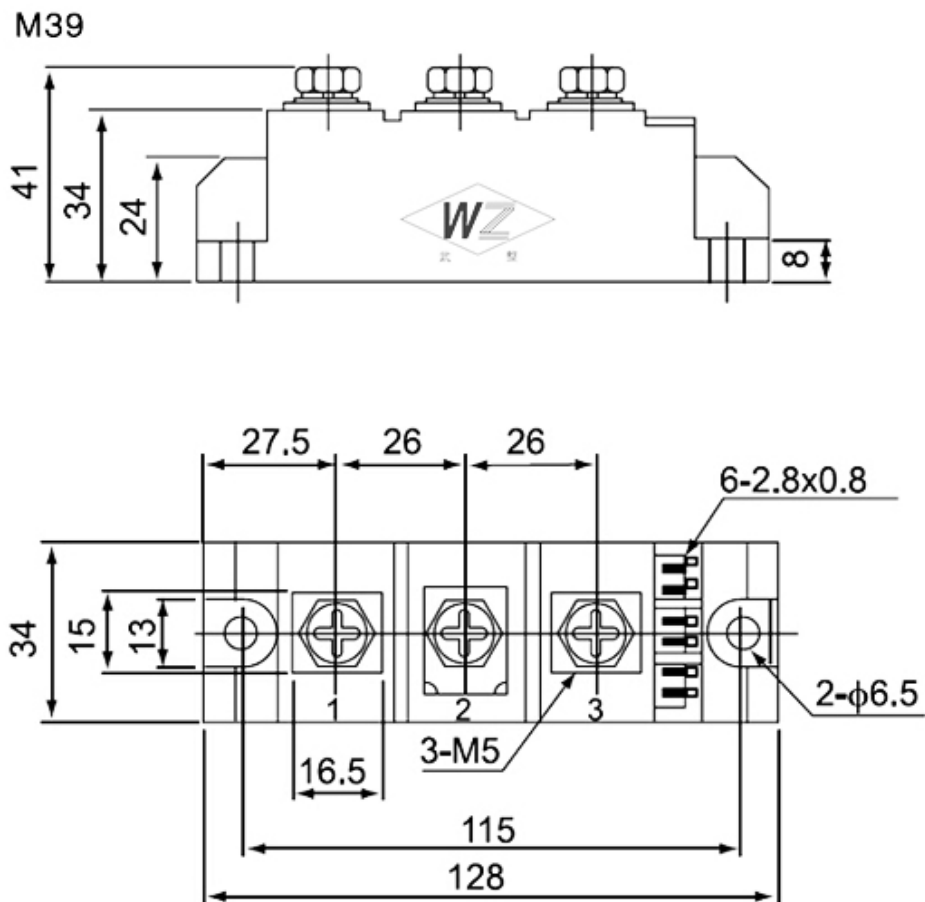
AC/DC Motor Control
 Various rectifying power suppliers
 Industry Heating Regulation
 Light Dimming
 Contactless Switches
 Motor Soft Start
 Static Var Compensation/SVR
 Welding Device
 Converter
 UPS Power Supplies
 Battery Charge and Discharge

| Symb. | | parameter | Test Conditions | $T_{J(c)}$ | Value | Unit |
|-----------------|--------------|--|--|------------|----------|-------------------|
| Current Ratings | $I_{F(AV)}$ | average on-state current | 180 °half sine wave 50Hz Single side cooled $T_c=115\text{ }^\circ\text{C}$ | 150 | 200 | A |
| | $I_{F(RMS)}$ | RMS on-state current | | 150 | 314 | A |
| | I_{FSM} | Surge on-state current | 10ms half sine wave $V_R=0.6V_{RRM}$ | 150 | 8.20 | KA |
| | I^2t | I ² T for fusing coordination | | 150 | 343 | 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 | $V_{RM}= V_{RRM}$ | 150 | Max.15 | mA |
| | V_{FO} | Threshold voltage | | 150 | Max.0.80 | V |
| | V_{FM} | Peak on-state voltage | $I_{FM}=600A$ | 25 | Max.1.39 | V |
| | r_F | On-state slop resistance | | 150 | Max.0.70 | mΩ |

Thermal & Mechanical Data

| Symb. | parameter | Test Conditions | Value | Unit |
|---------------|--------------------------------------|---|-----------|------|
| $R_{th(j-c)}$ | Thermal resistance Junction to case | single side cooled | Max.0.150 | °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:



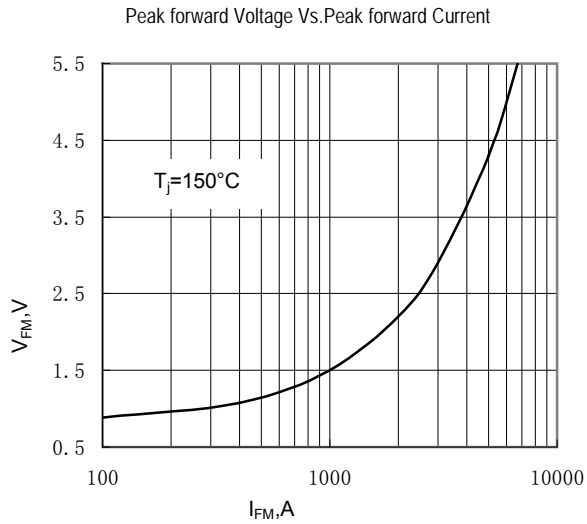


Fig.1

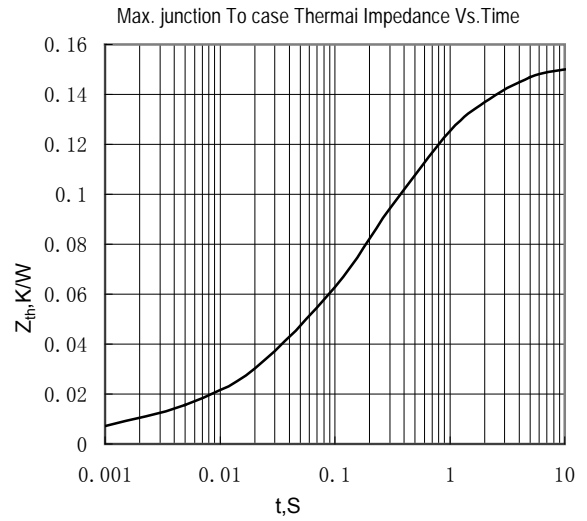


Fig.2

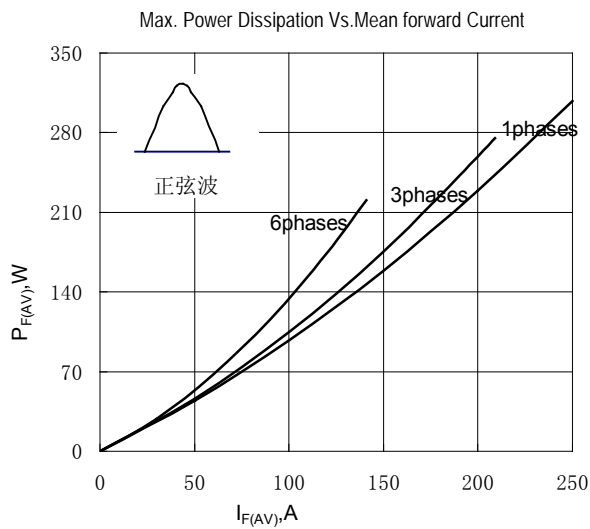


Fig.3

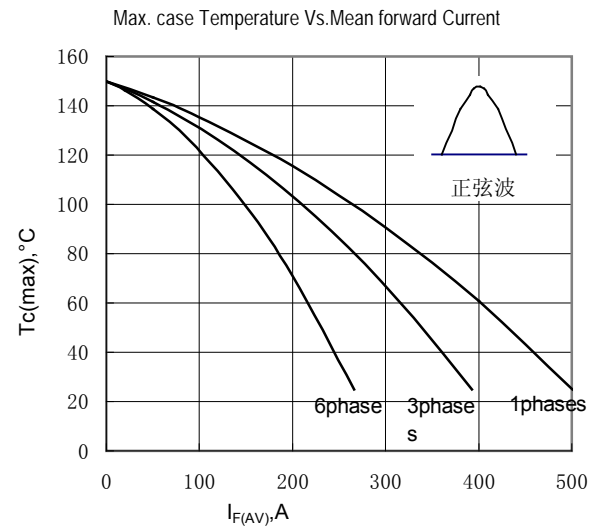


Fig.4

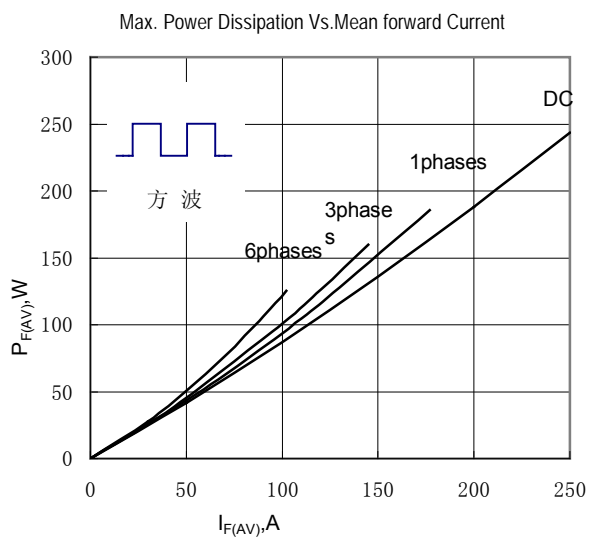


Fig.5

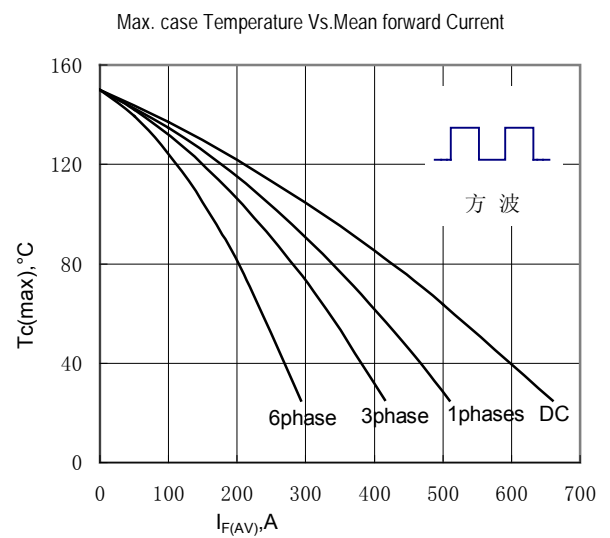


Fig.6

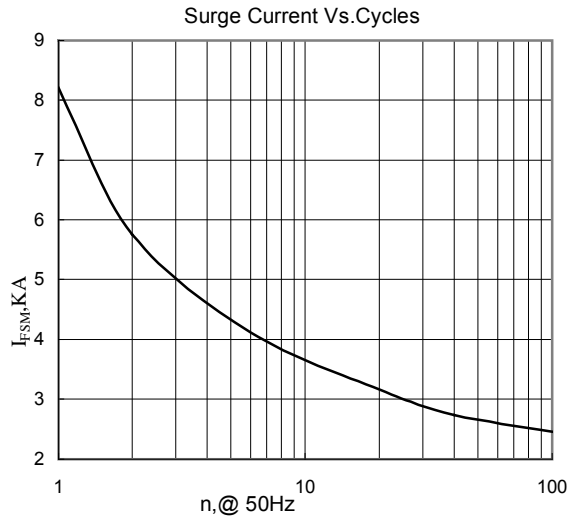


Fig.7

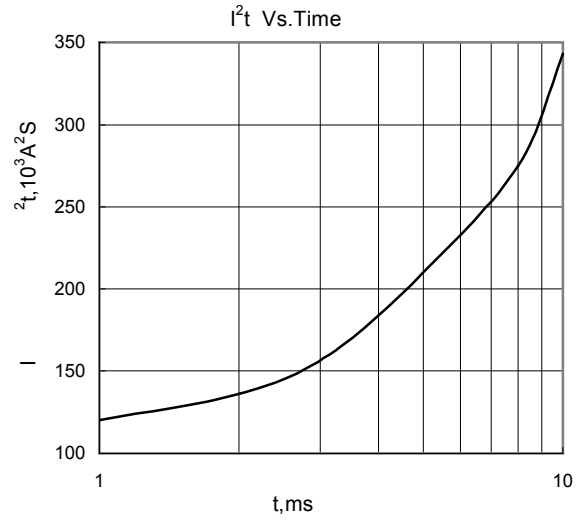


Fig.8

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