

MDS200 Three Phase Rectifier Bridge

TECHELE



RoHS CE ISO 9001

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_O | 200 A |
| V_{RRM} | 600-1600 V |
| I_{FSM} | 2.1KA |
| I^2t | 22.1KA ² S |

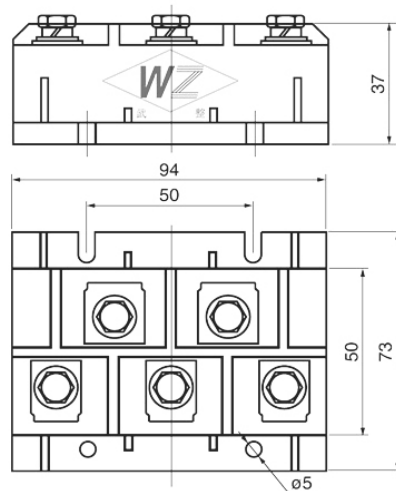
| Symb. | | parameter | Test Conditions | $T_{J(°C)}$ | Value | Unit |
|--------------------|-----------|---------------------------------|--|-------------|----------|-------------------|
| Current Tatings | I_O | average forward current | 180° half sine wave 50Hz Single side cooled, $T_C=100°C$ | 150 | 200 | A |
| | I_{FSM} | Surge forward current | 10ms half sine wave | 150 | 2.1 | KA |
| | I^2t | I^2t for fusing coordination | $VR=0.6VRRM$ | 150 | 22.1 | KA ² S |
| Characteristics | V_{RRM} | Repetitive peak reverse voltage | $V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$ | 150 | 600-1600 | V |
| | I_{RRM} | Repetitive peak current | $V_{RM}=V_{RRM}$ | 150 | Max.15 | mA |
| | V_{FM} | Peak on-state voltage | $I_{FM}=200A$ | 25 | Max.1.35 | V |
| | V_{FO} | Threshold voltage | | 150 | Max.0.8 | V |
| | r_F | Forward slop resistance | | 150 | Max.2.8 | mΩ |

Thermal & Mechanical Data

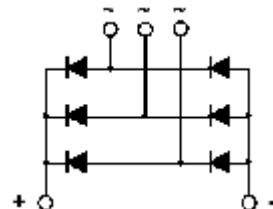
| Symb. | parameter | Test Conditions | Value | Unit |
|---------------|--------------------------------------|--------------------------------------|----------|------|
| $R_{th(j-c)}$ | Thermal resistance Junction to case | At 180°sine wave, single side cooled | Max.0.10 | °C/W |
| $R_{th(c-h)}$ | Thermal resistance case to heat sink | At 180°sine wave, single side cooled | Max.0.07 | °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.6.0 | N·m |
| | Mounting force (M6) | | Typ.4.0 | N·m |
| T_{stg} | Stored temperature | | -40+125 | °C |
| W_t | Weight | | -450 | g |

Outline:

M48



MDS/MDQ 200A



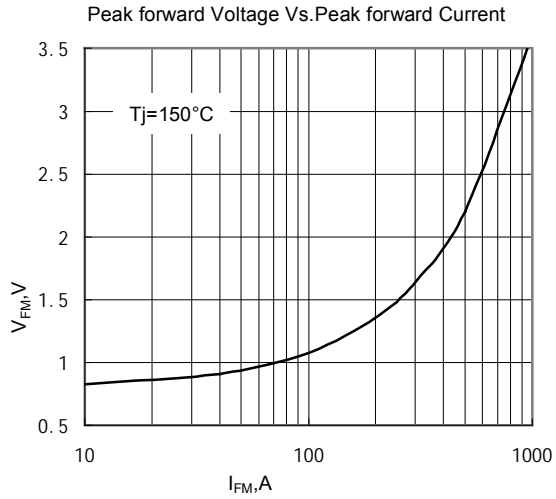


Fig.1

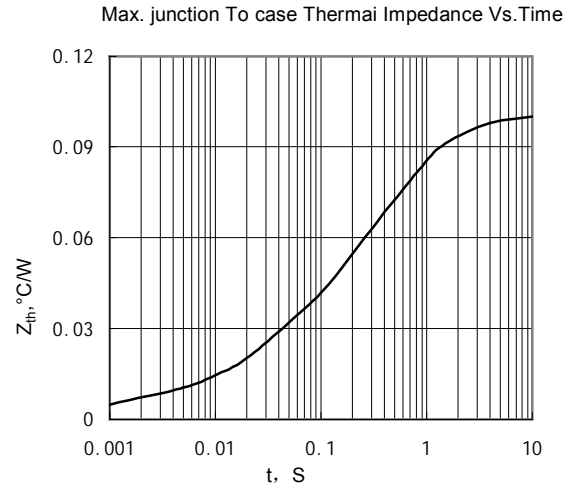


Fig.2

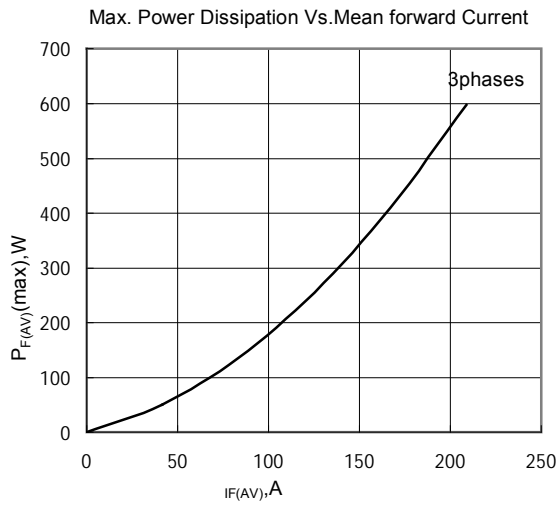


Fig.3

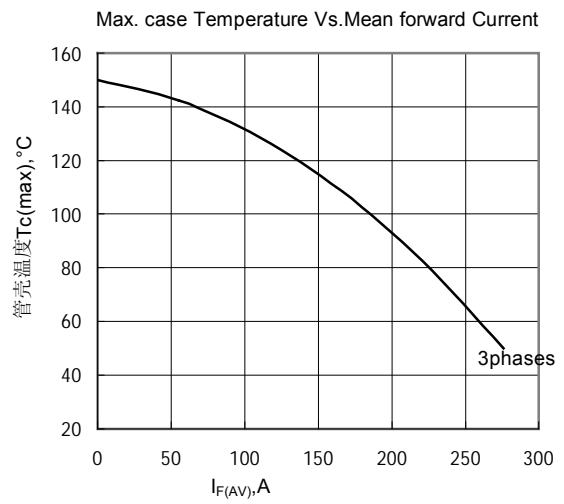


Fig.4

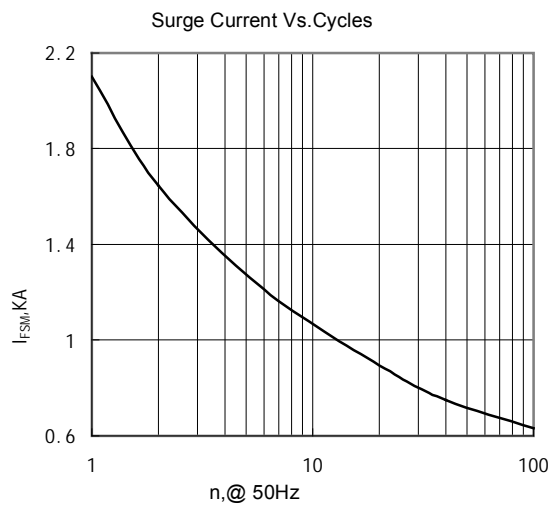


Fig.5

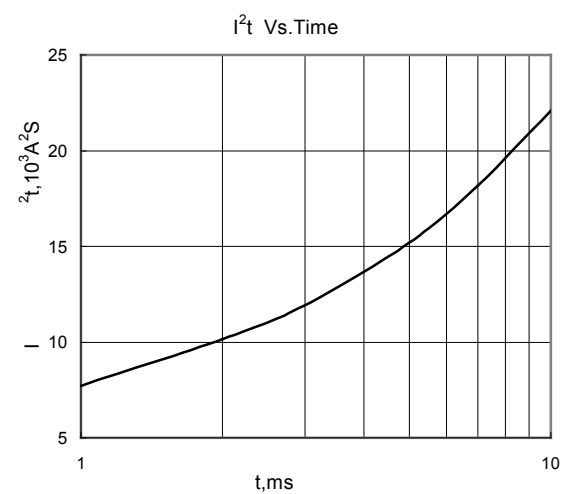


Fig.6

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