

Rectifier module

V_{RRM} = 800V to 1600V

I_(AV) = 200A

FEATURES

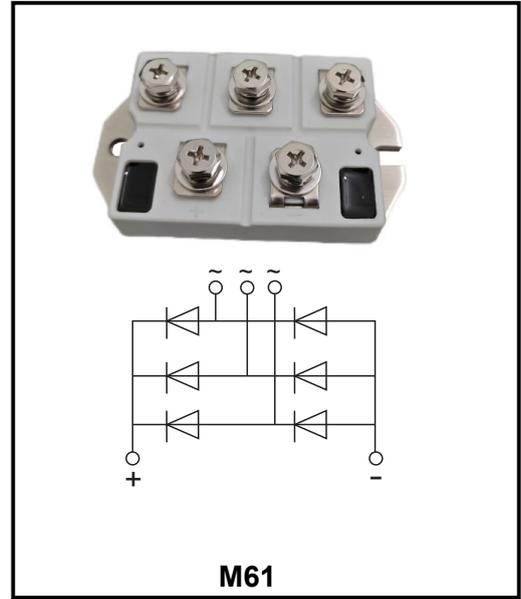
- ◆ Low reverse leakage current
- ◆ High surge current capability
- ◆ Compliant to RoHS directive 2011/65/EU

APPLICATIONS

- ◆ Industrial power supply
- ◆ DC supply for PWM inverter
- ◆ Supplies for DC power equipment

MECHANICAL DATA

- ◆ Case : M61
- ◆ Polarity: Polarity symbols being marked on body
- ◆ Mounting torque: 15kgf.cm max
- ◆ Weight: About 210 grams



Maximum Ratings @ Ta = 25°C unless otherwise noted

| Parameter | Symbols | MDS200-08 | MDS200-10 | MDS200-12 | MDS200-14 | MDS200-16 | Units |
|--|-------------------------|-----------------------------|-----------|-----------|-----------|-----------|-----------------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 800 | 1000 | 1200 | 1400 | 1600 | V |
| Average rectified output current with heatsink, T _c =100°C | I_(AV) | 200 | | | | | A |
| Peak surge forward current, 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 1800 | | | | | A |
| Rating for fusing, 1ms<t<8.3ms, T _j =25°C, Rating of per diode | I²t | 19800 | | | | | A²S |
| Junction temperature | T_j | -40 ~ +150 | | | | | °C |
| Storage temperature | T_{STG} | -40 ~ +125 | | | | | °C |
| Dielectric, strength terminals to case AC 1 minute | V_{dis} | 2.5 | | | | | KV |
| Peak Forward Voltage I _F = 200A | V_F | 1.2 | | | | | V |
| Peak Reverse Current V _R =V _{RRM} , Pulse measurement Rating of per diode | I_R | T _j =25°C 0.5 | | | | | mA |
| | | T _j =125°C 10 | | | | | |
| Junction to case thermal resistance, with heatsink | R_{θJC} | 0.18 | | | | | °C/W |

Characteristic Curve

FIG1. Derating Curve For Output Rectified Current

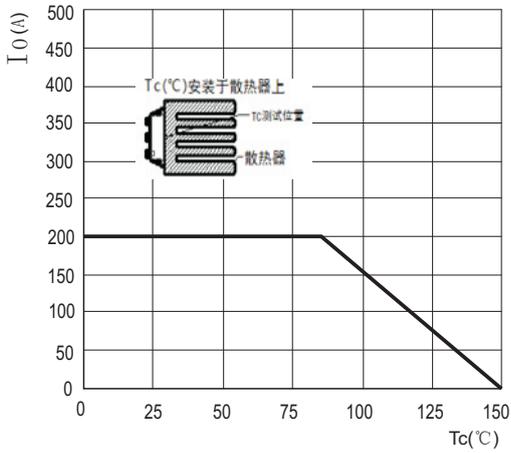


FIG2. Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

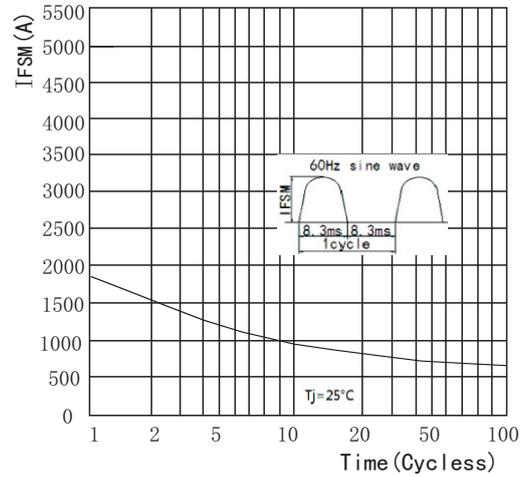


FIG3. Typical Reverse Characteristics Per Bridge Element

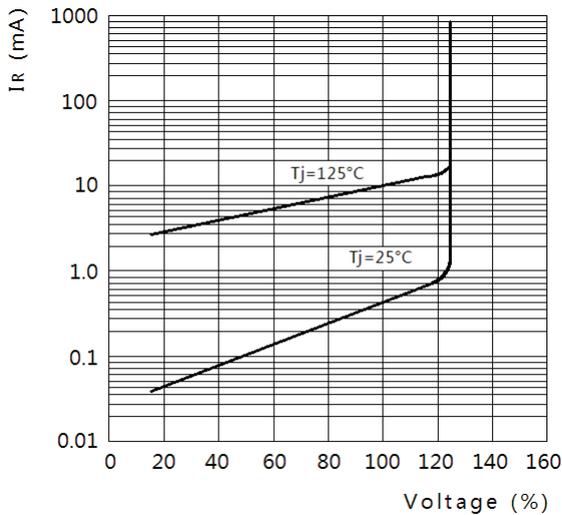
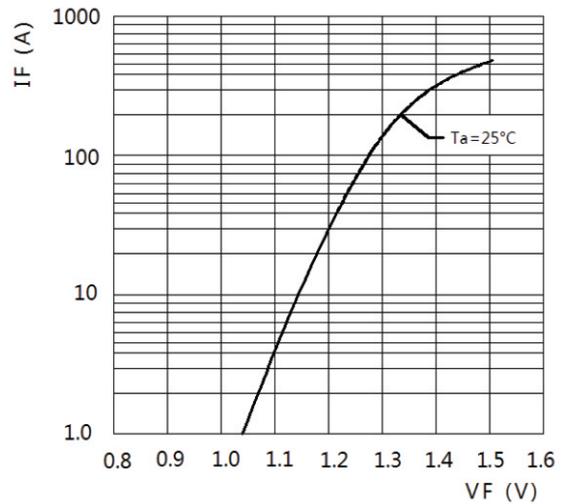


FIG4. Typical Forward Characteristics Per Bridge Element



Marking Diagram



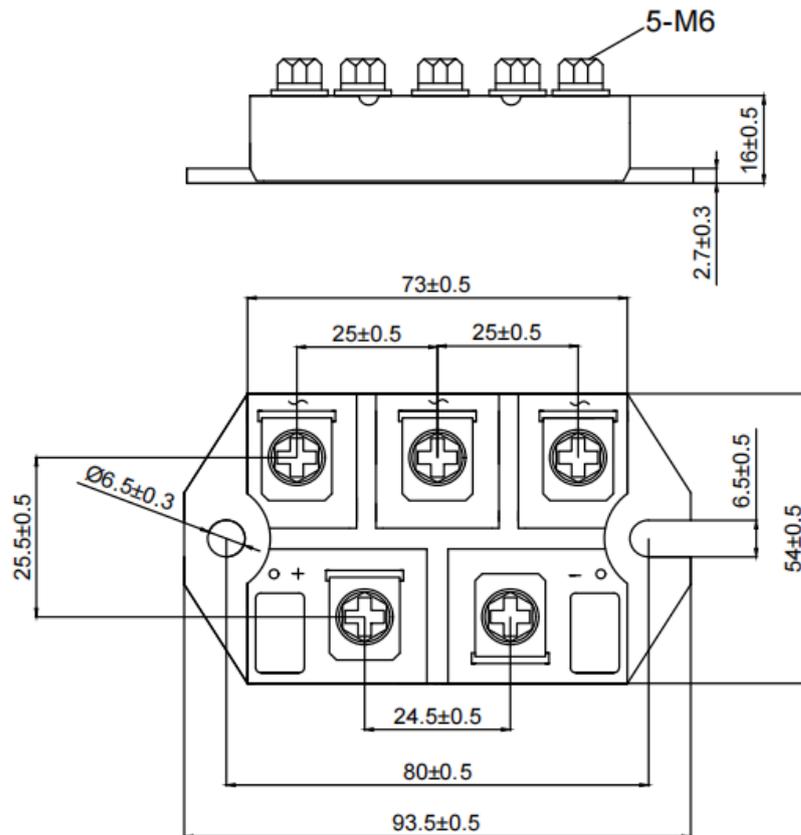
Ordering information

| Model name | Package | Unit Weight | Base Quantity |
|------------|---------|-------------|---------------|
| MDS200-XX | M61 | - | 6 pcs/ Box |

Package Dimensions

M61

unit: Millimeter



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