查询VUO35供应商 捷多邦，专业PCB打样工厂，24小时加急出货

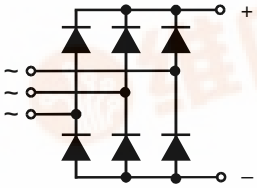


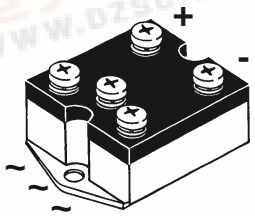
# Three Phase Rectifier Bridge

$I_{dAVM}$ = 38 A
$V_{RRM}$ = 1200-1800 V

| $V_{RSM}$ V | $V_{RRM}$ V | Type |
|---|---|---|
| 600 | 600 | VUO 35-06NO7 |
| 1200 | 1200 | VUO 35-12NO7 |
| 1400 | 1400 | VUO 35-14NO7 |
| 1600 | 1600 | VUO 35-16NO7 |
| 1800 | 1800 | VUO 35-18NO7* |

* delivery time on request




| Symbol | Test Conditions | | Maximum Ratings | |
|---|---|---|---|---|
| $I_{dAVM}$ | $T_C$ = 85°C, module | | 38 | A |
| $I_{FSM}$ | $T_{VJ}$ = 45°C; | t = 10 ms (50 Hz), sine | 400 | A |
| | $V_R$ = 0 | t = 8.3 ms (60 Hz), sine | 440 | A |
| | $T_{VJ}$ = $T_{VJM}$ | t = 10 ms (50 Hz), sine | 360 | A |
| | $V_R$ = 0 | t = 8.3 ms (60 Hz), sine | 400 | A |
| $I^2t$ | $T_{VJ}$ = 45°C | t = 10 ms (50 Hz), sine | 800 | $A^2s$ |
| | $V_R$ = 0 | t = 8.3 ms (60 Hz), sine | 810 | $A^2s$ |
| | $T_{VJ}$ = $T_{VJM}$ | t = 10 ms (50 Hz), sine | 650 | $A^2s$ |
| | $V_R$ = 0 | t = 8.3 ms (60 Hz), sine | 670 | $A^2s$ |
| $T_{VJ}$ | | | -40...+150 | °C |
| $T_{VJM}$ | | | 150 | °C |
| $T_{stg}$ | | | -40...+150 | °C |
| $V_{ISOL}$ | 50/60 Hz, RMS | t = 1 min | 2500 | V~ |
| | $I_{ISOL}$ ≤ 1 mA | t = 1 s | 3000 | V~ |
| $M_d$ | Mounting torque (M4) | | 1.5 ± 15 % | Nm |
| | | | 13 ± 15 % | lb.in. |
| | Terminal connection torque (M4) | | 1.5 ± 15 % | Nm |
| | | | 13 ± 15 % | lb.in. |
| Weight | typ. | | 135 | g |

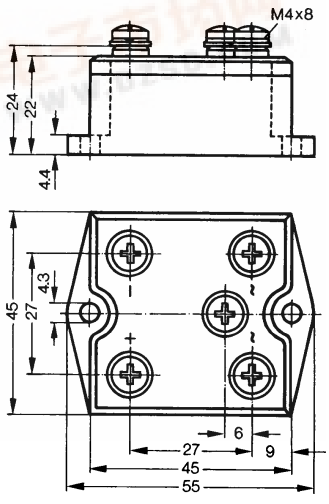
| Symbol | Test Conditions | | Characteristic Values | | |
|---|---|---|---|---|---|
| $I_R$ | $V_R$ = $V_{RRM}$; | $T_{VJ}$ = 25°C | ≤ | 0.3 | mA |
| | $V_R$ = $V_{RRM}$; | $T_{VJ}$ = $T_{VJM}$ | ≤ | 5.0 | mA |
| $V_F$ | $I_F$ = 150 A; | $T_{VJ}$ = 25°C | ≤ | 2.2 | V |
| $V_{T0}$ | For power-loss calculations only | | | 0.85 | V |
| $r_T$ | | | | 12 | mΩ |
| $R_{thJC}$ | per diode; DC current | | | 4.2 | K/W |
| | per module | | | 0.7 | K/W |
| $R_{thJH}$ | per diode; DC current | | | 4.8 | K/W |
| | per module | | | 0.8 | K/W |

**Features**
- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

**Applications**
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

**Advantages**
- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

**Dimensions in mm (1 mm = 0.0394")**




Data according to IEC 60747 and refer to a single diode unless otherwise stated.
IXYS reserves the right to change limits, test conditions and dimensions.

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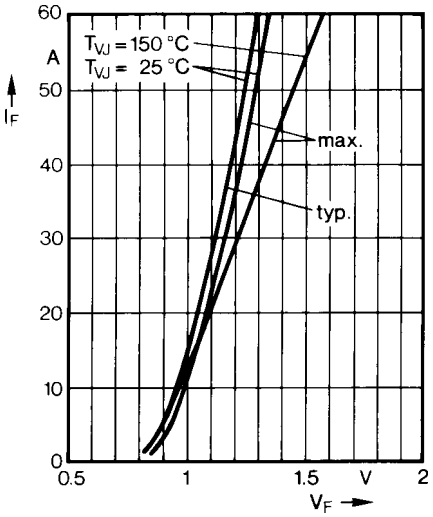


Fig. 1 Forward current versus voltage drop per diode

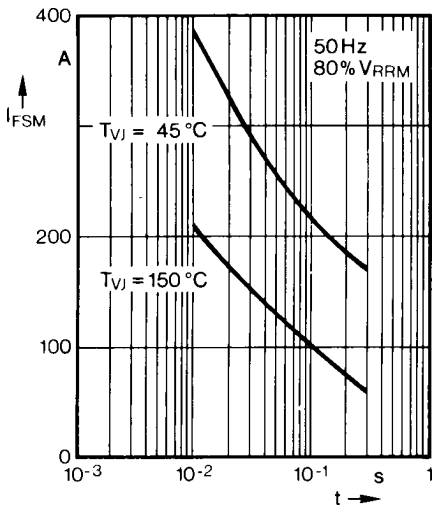


Fig. 2 Surge overload current per diode
$I_{FSM}$: Crest value. t: duration

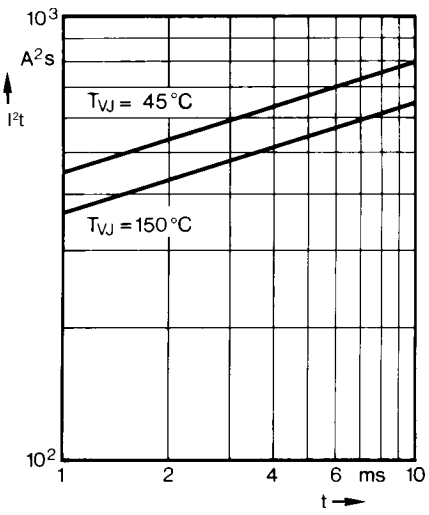


Fig. 3 $I^2t$ versus time (1-10 ms) per diode

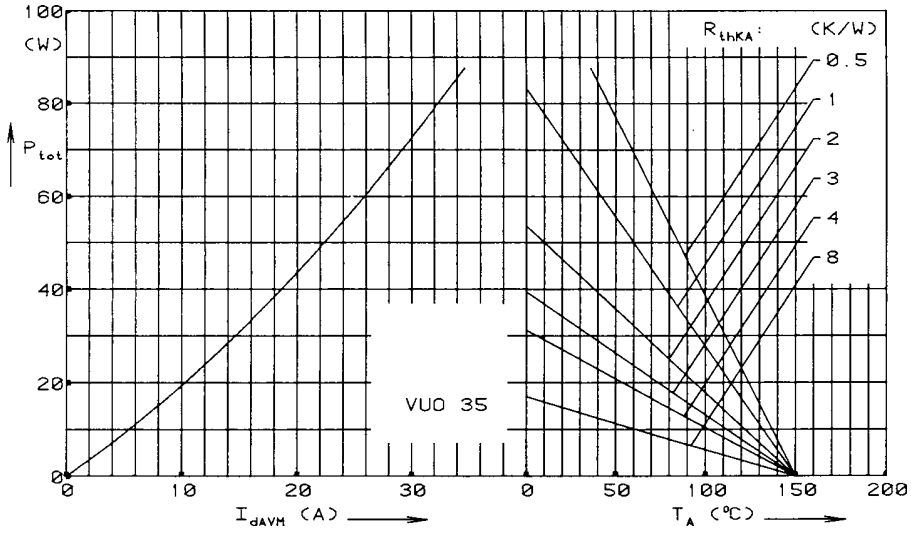


Fig. 4 Power dissipation versus direct output current and ambient temperature

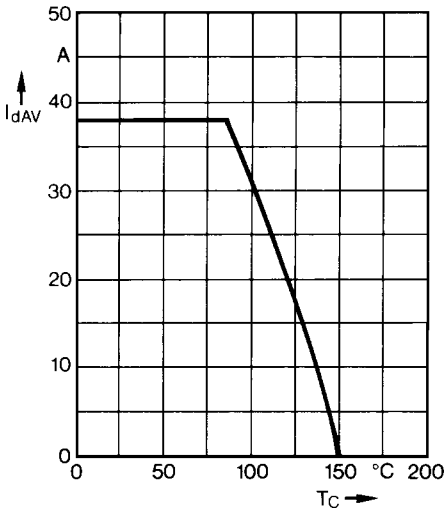


Fig. 5 Maximum forward current at case temperature

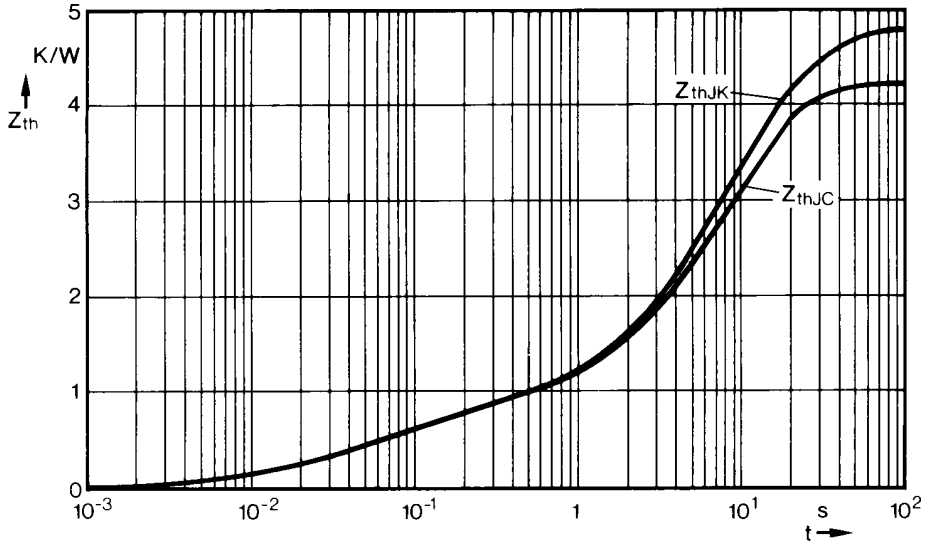


Fig. 6 Transient thermal impedance per diode

Constants for $Z_{thJC}$ calculation:

| i | $R_{thi}$ (K/W) | $t_i$ (s) |
|---|---|---|
| 1 | 0.194 | 0.024 |
| 2 | 0.556 | 0.07 |
| 3 | 0.45 | 3.25 |
| 4 | 3.0 | 9.3 |

Constants for $Z_{thJK}$ calculation:

| i | $R_{thi}$ (K/W) | $t_i$ (s) |
|---|---|---|
| 1 | 0.194 | 0.024 |
| 2 | 0.556 | 0.07 |
| 3 | 0.45 | 3.25 |
| 4 | 3.0 | 9.3 |
| 5 | 0.6 | 28.0 |

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