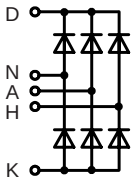
# Three Phase Rectifier Bridge

$I_{dAV}$ = 28 A
$V_{RRM}$ = 600-1200 V

Preliminary data

| $V_{RSM}$ V | $V_{RRM}$ V | Type |
|---|---|---|
| 700 | 600 | VUO 27-06NO7 |
| 900 | 800 | VUO 27-08NO7 |
| 1300 | 1200 | VUO 27-12NO7 |





| Symbol | Conditions | Maximum Ratings | |
|---|---|---|---|
| $I_{dAV}$ ① | $T_C$ = 100°C, module | 28 | A |
| $I_{FSM}$ | $T_{VJ}$ = 45°C; t = 10 ms (50 Hz), sine | 100 | A |
| | $V_R$ = 0; t = 8.3 ms (60 Hz), sine | 106 | A |
| | $T_{VJ}$ = $T_{VJM}$; t = 10 ms (50 Hz), sine | 85 | A |
| | $V_R$ = 0; t = 8.3 ms (60 Hz), sine | 90 | A |
| $I^2t$ | $T_{VJ}$ = 45°C; t = 10 ms (50 Hz), sine | 50 | $A^2s$ |
| | $V_R$ = 0; t = 8.3 ms (60 Hz), sine | 47 | $A^2s$ |
| | $T_{VJ}$ = $T_{VJM}$; t = 10 ms (50 Hz), sine | 36 | $A^2s$ |
| | $V_R$ = 0; t = 8.3 ms (60 Hz), sine | 33 | $A^2s$ |
| $T_{VJ}$ | | -40...+150 | °C |
| $T_{VJM}$ | | 150 | °C |
| $T_{stg}$ | | -40...+125 | °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 - 2 | Nm |
| | | 14 - 18 | lb.in. |
| Weight | typ. | 18 | g |

| Symbol | 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 | mA |
| $V_F$ | $I_F$ = 7 A; $T_{VJ}$ = 25°C | ≤ | 1.12 | V |
| $V_{T0}$ | For power-loss calculations only | | 0.8 | V |
| $r_T$ | | | 40 | mΩ |
| $R_{thJC}$ | per diode; DC current | | 2.3 | K/W |
| | per module | | 0.39 | K/W |
| $R_{thJH}$ | per diode, DC current | | 2.8 | K/W |
| | per module | | 0.47 | K/W |
| $d_S$ | Creeping distance on surface | | 11.2 | mm |
| $d_A$ | Creepage distance in air | | 9.7 | mm |
| a | Max. allowable acceleration | | 50 | $m/s^2$ |

Data according to IEC 60747 refer to a single diode unless otherwise stated
① for resistive load at bridge output.

### Features

- Package with DCB ceramic base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering

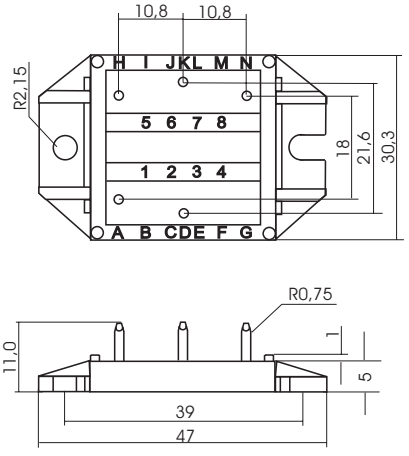
### Applications

- 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 capability
- Small and light weight

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




IXYS reserves the right to change limits, test conditions and dimensions.

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