



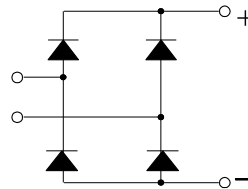
Single Phase Rectifier Bridge

PSB 36T PSB 36TN

$I_{dAVM} = 30 \text{ A}$
 $V_{RRM} = 1200 \text{ V to } 2200 \text{ V}$

Preliminary Data Sheet

| V_{RSM} V | V_{RRM} V | Type Number | |
|----------------|----------------|-----------------------|-------------------------|
| | | Gold-plated terminals | Nickel-plated terminals |
| 1200 | 1200 | PSB 36T/12 | PSB 36TN/12 |
| 1400 | 1400 | PSB 36T/14 | PSB 36TN/14 |
| 1600 | 1600 | PSB 36T/16 | PSB 36TN/16 |
| 1800 | 1800 | PSB 36T/18 | PSB 36TN/18 |
| 2000 | 2000 | PSB 36T/20 | PSB 36TN/20 |
| 2200 | 2200 | PSB 36T/22 | PSB 36TN/22 |



| Symbol | Test Conditions | Maximum Ratings |
|------------------|---|---|
| I_{dAVM} | $T_c = 62^\circ\text{C}$ per module | 30 A |
| I_{FSM} | $T_{vj} = 45^\circ\text{C}$, $V_R = 0 \text{ V}$ | $t = 10 \text{ ms}$ 50 Hz, sine 550 A |
| | $T_{vj} = T_{vj\text{m}}$, $V_R = 0 \text{ V}$ | $t = 10 \text{ ms}$ 50 Hz, sine 500 A |
| $\int i^2 dt$ | $T_{vj} = 45^\circ\text{C}$, $V_R = 0 \text{ V}$ | $t = 10 \text{ ms}$ 50 Hz, sine 1520 A ² s |
| T_{vj} | | -40 ... +150 °C |
| $T_{vj\text{m}}$ | | 150 °C |
| T_{stg} | | -40 ... +150 °C |
| | V_{isol} 50/60 Hz, RMS | $t = 1 \text{ min}$ 2500 V~ |
| | $I_{isol} \leq 1 \text{ mA}$ | $t = 1 \text{ s}$ 3000 V~ |
| M_d | Mounting torque (M5) | 2±10% Nm |
| | | (10-32 UNF) 18±10% lb in |
| Weight | typ. | 20 g |

| Symbol | Test Conditions | Characteristic Value |
|---------------|----------------------------------|--------------------------------------|
| I_R | $V_R = V_{RRM}$ | $T_{vj} = 25^\circ\text{C}$ ≤ 0.3 mA |
| | $V_R = V_{RRM}$ | $T_{vj} = T_{vj\text{m}}$ ≤ 2.0 mA |
| V_F | $I_F = 150 \text{ A}$ | $T_{vj} = 25^\circ\text{C}$ ≤ 1.7 V |
| V_{TO} | For power-loss calculations only | 0.8 V |
| r_T | $T_{vj} = T_{vj\text{m}}$ | 5.8 mΩ |
| $R_{th(j-c)}$ | per diode; DC current | 6.2 K/W |
| | per module | 1.55 K/W |
| $R_{th(j-s)}$ | per diode; DC current | 7.4 K/W |
| | per module | 1.85 K/W |
| d_s | Creeping distance on surface | 12.7 mm |
| d_A | Creeping distance on air | 9.4 mm |
| a | Maximum allowable acceleration | 50 m/s ² |

Data according to IEC 60747 refers to a single diode unless otherwise stated

Features

- 1/4" gold- or nickel-plated FASTON terminals
- Isolation voltage 3000 V~
- Mesa glass-passivated chips
- Blocking voltage up to 2200 V
- Low forward voltage drop
- UL registered E 148688

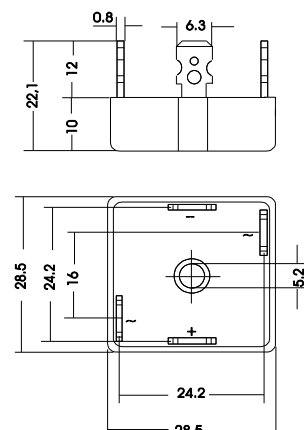
Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverters
- Battery DC power supplies
- Field supply of DC motors

Advantages

- Easy to mount with one screw
- Space and weight savings
- Improved temperature and power cycling capability

Package style and outline



Dimensions in mm (1mm = 0.0394")

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