



Single Phase Rectifier Bridge

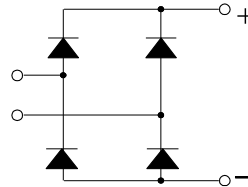
PSB 36T PSB 36TN

$$I_{dAVM} = 30 \text{ A}$$

$$V_{RRM} = 1200 \text{ V to } 2200 \text{ V}$$

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

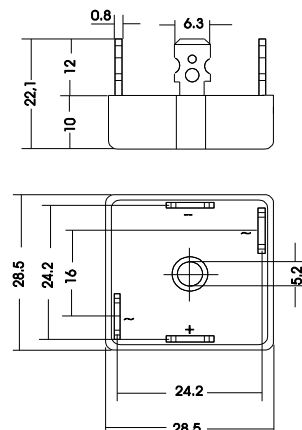
Applications

- 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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