

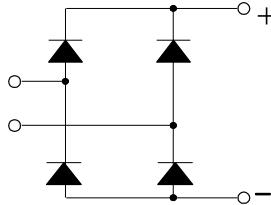
Single Phase Rectifier Bridge

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
	$T_{vj} = T_{vjM}$, $V_R = 0 \text{ V}$	$t = 10 \text{ ms}$	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	$^\circ\text{C}$
T_{vjM}				150	$^\circ\text{C}$
T_{stg}				-40 ... +150	$^\circ\text{C}$
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

Features

- ¼" 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

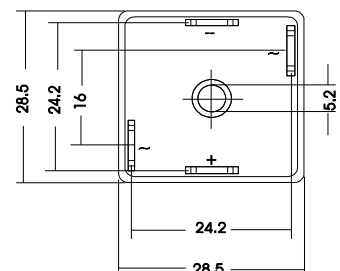
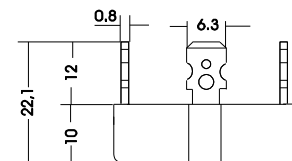
Advantages

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

Symbol	Test Conditions			Characteristic Value	
I_R	$V_R = V_{RRM}$	$T_{vj} = 25^\circ\text{C}$	$\leq$	0.3	mA
	$V_R = V_{RRM}$	$T_{vj} = T_{vjM}$	$\leq$	2.0	mA
V_F	$I_F = 150 \text{ A}$	$T_{vj} = 25^\circ\text{C}$	$\leq$	1.7	V
V_{TO}	For power-loss calculations only			0.8	V
r_T	$T_{vj} = T_{vjM}$			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

Package style and outline



Dimensions in mm (1mm = 0.0394")