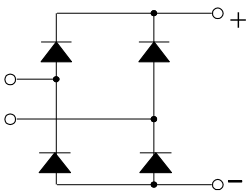
Single Phase Rectifier Bridge

PSB 36T
PSB 36TN

I_{dAVM} = 30 A
V_{RRM} = 1200 V to 2200 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°C per module			30	A
I_{FSM}	T_{vj} = 45°C, V_R = 0 V	t = 10 ms	50 Hz, sine	550	A
	T_{vj} = T_{vjm}, V_R = 0 V	t = 10 ms	50 Hz, sine	500	A
$\int i^2dt$	T_{vj} = 45°C, V_R = 0 V	t = 10 ms	50 Hz, sine	1520	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} ≤ 1mA	t = 1 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°C	≤	0.3	mA
	V_R = V_{RRM}	T_{vj} = T_{vjm}	≤	2.0	mA
V_F	I_F = 150 A	T_{vj} = 25°C	≤	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

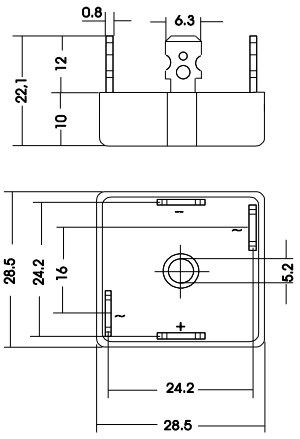
Data according to IEC 60747 refers to a single diode unless otherwise stated

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

Package style and outline



Dimensions in mm (1mm = 0.0394")

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