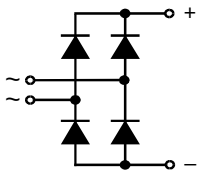
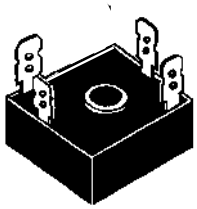
Single Phase Rectifier Bridge

I_{dAVM} = 21 A
V_{RRM} = 1200-1800 V

V_{RSM} V	V_{RRM} V	Type
1200	1200	VBO 22-12NO8
1400	1400	VBO 22-14NO8
1600	1600	VBO 22-16NO8
1800	1800	VBO 22-18NO8





Symbol	Test Conditions		Maximum Ratings	
I_{dAV}	T_C = 85°C, module		17	A
I_{dAVM}	T_C = 63°C, module		21	A
I_{FSM}	T_{VJ} = 45°C;	t = 10 ms (50 Hz), sine	380	A
	V_R = 0	t = 8.3 ms (60 Hz), sine	440	A
	T_{VJ} = T_{VJM}	t = 10 ms (50 Hz), sine	360	A
	V_R = 0	t = 8.3 ms (60 Hz), sine	400	A
I^2t	T_{VJ} = 45°C	t = 10 ms (50 Hz), sine	725	A^2s
	V_R = 0	t = 8.3 ms (60 Hz), sine	800	A^2s
	T_{VJ} = T_{VJM}	t = 10 ms (50 Hz), sine	650	A^2s
	V_R = 0	t = 8.3 ms (60 Hz), sine	650	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} ≤ 1 mA	t = 1 s	3000	V~
M_d	Mounting torque	(M5)	2 ± 10 %	Nm
		(10-32 UNF)	18 ± 10 %	lb.in.
Weight	typ.		22	g

Symbol	Test Conditions		Characteristic Values	
I_R	T_{VJ} = 25°C;	V_R = V_{RRM}	≤ 0.3	mA
	T_{VJ} = T_{VJM};	V_R = V_{RRM}	≤ 5.0	mA
V_F	I_F = 150 A;	T_{VJ} = 25°C	≤ 2.2	V
V_{T0}	For power-loss calculations only		0.85	V
r_T			12	mΩ
R_{thJC}	per diode; DC current		8.2	K/W
	per module		2.05	K/W
R_{thJK}	per diode; DC current		9.4	K/W
	per module		2.35	K/W
d_S	Creeping distance on surface		12.7	mm
d_A	Creepage distance in air		9.4	mm
a	Max. allowable acceleration		50	m/s^2

Data according to IEC 60747 and refer to a single diode unless otherwise stated.
IXYS reserves the right to change limits, test conditions and dimensions.

Features

- Package with ¼" fast-on terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

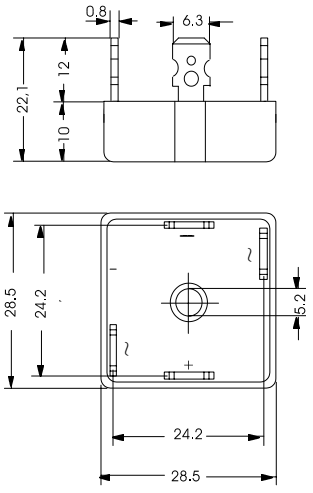
Applications

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

Advantages

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

Dimensions in mm (1 mm = 0.0394")



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