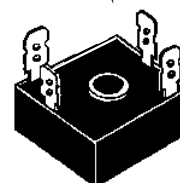
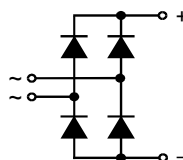


Single Phase Rectifier Bridge

$I_{dAVM} = 30 \text{ A}$
 $V_{RRM} = 1200-1800 \text{ V}$

V_{RSM} V	V_{RRM} V	Type
1200	1200	VBO 36-12NO8
1400	1400	VBO 36-14NO8
1600	1600	VBO 36-16NO8
1800	1800	VBO 36-18NO8



Symbol	Test Conditions	Maximum Ratings	
I_{dAV}	$T_C = 85^\circ\text{C}$, module	23 A	
I_{dAVM}	$T_C = 62^\circ\text{C}$, module	30 A	
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	550 A 600 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	500 A 550 A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	1520 A ² s 1520 A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	1250 A ² s 1250 A ² s
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~
	$I_{ISOL} \leq 1 \text{ mA}$	t = 1 s	3000 V~
M_d	Mounting torque	(M5)	$2 \pm 10 \%$ Nm
		(10-32 UNF)	$18 \pm 10 \%$ lb.in.
Weight	typ.	22 g	

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

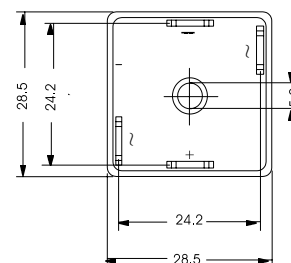
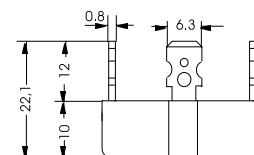
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

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

Symbol	Test Conditions	Characteristic Values
I_R	$T_{VJ} = 25^\circ\text{C}$;	$V_R = V_{RRM}$ ≤ 0.3 mA
	$T_{VJ} = T_{VJM}$;	$V_R = V_{RRM}$ ≤ 2.0 mA
V_F	$I_F = 150 \text{ A}$;	$T_{VJ} = 25^\circ\text{C}$ ≤ 1.7 V
V_{T0}	For power-loss calculations only	0.8 V
r_T		5.8 mΩ
R_{thJC}	per diode; DC current	6.2 K/W
	per module	1.55 K/W
R_{thJK}	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	Creepage distance in air	9.4 mm
a	Max. allowable acceleration	50 m/s ²

Dimensions in mm (1 mm = 0.0394")



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.