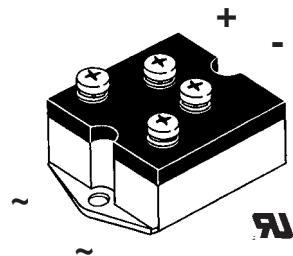
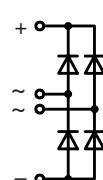


Single Phase Rectifier Bridge

I_{dAVM} = 50 A
V_{RRM} = 800-1800 V

V _{RSM}	V _{RRM}	Type
V	V	
800	800	VBO 50-08NO7
1200	1200	VBO 50-12NO7
1400	1400	VBO 50-14NO7
1600	1600	VBO 50-16NO7
1800	1800	VBO 50-18NO7*

* delivery time on request



Symbol	Conditions	Maximum Ratings		
I _{dAVM}	T _C = 64°C, module	50	A	
I _{FSM}	T _{VJ} = 45°C; V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	750 820	A A
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	670 740	A A
I ² t	T _{VJ} = 45°C V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2800 2820	A ² s A ² s
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2250 2300	A ² s A ² s
T _{VJ}			-40...+150	°C
T _{VJM}			150	°C
T _{stg}			-40...+150	°C
V _{ISOL}	50/60 Hz, RMS I _{ISOL} ≤ 1 mA	t = 1 min t = 1 s	2500 3000	V~ V~
M _d	Mounting torque (M5)	5 ±15% 44 ±15%	Nm lb.in.	
	Terminal connection torque (M5)	3 ±15% 26 ±15%	Nm lb.in.	
Weight	typ.	260	g	

Symbol	Conditions	Characteristic Values		
I _R	V _R = V _{RRM} ; V _R = V _{RRM} ;	T _{VJ} = 25°C T _{VJ} = T _{VJM}	≤ 0.3 ≤ 10.0	mA mA
V _F	I _F = 150 A;	T _{VJ} = 25°C	≤ 1.6	V
V _{T0}	For power-loss calculations only		0.85	V
r _T	T _{VJ} = T _{VJM}		8	mΩ
R _{thJC}	per diode; DC current		2.6	kW
	per module		0.65	kW
R _{thJK}	per diode; DC current		2.84	kW
	per module		0.71	kW

Data according to IEC 60747 refer to a single diode unless otherwise stated.

IXYS reserves the right to change limits, test conditions and dimensions.

© 2004 IXYS All rights reserved

Features

- Package with screw 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 two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")

