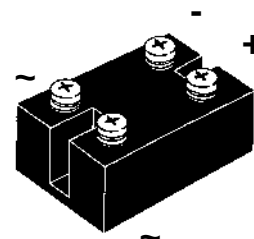
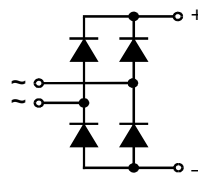


Single Phase Rectifier Bridge

$$I_{dAVM} = 124 \text{ A}$$

$$V_{RRM} = 1200-1800 \text{ V}$$

V_{RSM}	V_{RRM}	Type
V	V	
900	800	VBO 125-08NO7
1200	1200	VBO 125-12NO7
1400	1400	VBO 125-14NO7
1600	1600	VBO 125-16NO7
1800	1800	VBO 125-18NO7



Symbol	Test Conditions	Maximum Ratings
I_{dAVM}	$T_C = 85^\circ\text{C}$, module	124 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 1800 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine 1950 A
	$T_{VJ} = T_{VJM}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 1600 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine 1800 A
I^2t	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 16200 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine 16000 A ² s
	$T_{VJ} = T_{VJM}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 12800 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine 13600 A ² s
T_{VJ}		-40...+150 °C
T_{VJM}		150 °C
T_{stg}		-40...+150 °C
V_{ISOL}	50/60 Hz, RMS	$t = 1 \text{ min}$ 2500 V~
	$I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ s}$ 3000 V~
M_d	Mounting torque (M5)	5 ± 15 % Nm
		44 ± 15 % lb.in.
	Terminal connection torque (M5)	5 ± 15 % Nm
		44 ± 15 % lb.in.
Weight	typ.	225 g

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

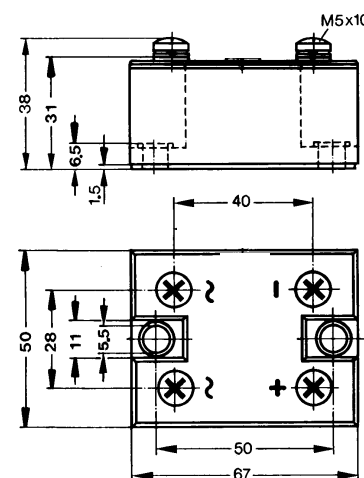
Applications

- 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")



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