

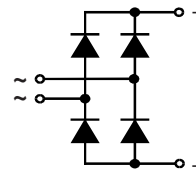
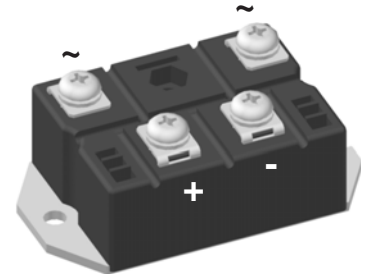
Single Phase Rectifier Bridge

$$I_{dAV} = 174 \text{ A}$$

$$V_{RRM} = 800-1800 \text{ V}$$

Preliminary data

V_{RSM} V	V_{RRM} V	Type
800	800	VBO 160-08NO7
1200	1200	VBO 160-12NO7
1400	1400	VBO 160-14NO7
1600	1600	VBO 160-16NO7
1800	1800	VBO 160-18NO7



Symbol	Test Conditions		Maximum Ratings	
I _{dAV}	T _C = 100°C, module		174	A
I _{dAV}	T _A = 35°C (R _{thCA} = 0.2 K/W), module		139	A
I _{FSM}	T _{VJ} = 45°C; V _R = 0	t = 10 ms (50 Hz), sine	2800	A
		t = 8.3 ms (60 Hz), sine	3300	A
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine	2500	A
		t = 8.3 ms (60 Hz), sine	2750	A
I ² t	T _{VJ} = 45°C V _R = 0	t = 10 ms (50 Hz), sine	39 200	A ² s
		t = 8.3 ms (60 Hz), sine	45 000	A ² s
	T _{VJ} = T _{VJM} V _R = 0	t = 10 ms (50 Hz), sine	31 200	A ² s
		t = 8.3 ms (60 Hz), sine	31 300	A ² s
T _{VJ}			-40...+150	°C
T _{VJM}			150	°C
T _{stg}			-40...+125	°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 (M6)		5 ± 15 %	Nm
	Terminal connection torque (M6)		5 ± 15 %	Nm
Weight	typ.		270	g

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL applied

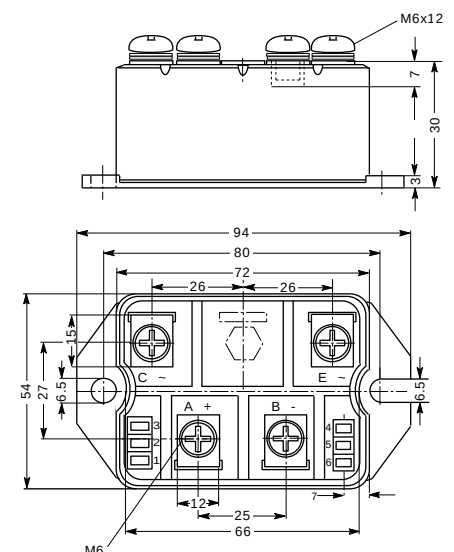
Applications

- 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.