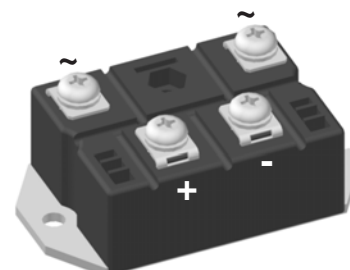
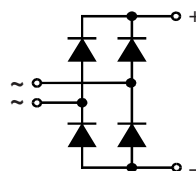


Single Phase Rectifier Bridge

$$\begin{aligned} I_{dAV} &= 122 \text{ A} \\ V_{BBM} &= 800\text{-}1800 \text{ V} \end{aligned}$$

Preliminary data

V_{RSM} V	V_{RRM} V	Type
800	800	VBO 130-08NO7
1200	1200	VBO 130-12NO7
1400	1400	VBO 130-14NO7
1600	1600	VBO 130-16NO7
1800	1800	VBO 130-18NO7



Symbol	Test Conditions		Maximum Ratings	
I_{dAV}	T _C = 100°C, module		122	A
I_{dAV}	T _A = 35°C (R _{thCA} = 0.2 K/W), module		115	A
I_{FSM}	T _{VJ} = 45°C;	t = 10 ms (50 Hz), sine	1800	A
	V _R = 0	t = 8.3 ms (60 Hz), sine	1950	A
	T _{VJ} = T _{VJM}	t = 10 ms (50 Hz), sine	1600	A
	V _R = 0	t = 8.3 ms (60 Hz), sine	1800	A
I²t	T _{VJ} = 45°C	t = 10 ms (50 Hz), sine	16 200	A ² s
	V _R = 0	t = 8.3 ms (60 Hz), sine	16 200	A ² s
	T _{VJ} = T _{VJM}	t = 10 ms (50 Hz), sine	12 800	A ² s
	V _R = 0	t = 8.3 ms (60 Hz), sine	13 400	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

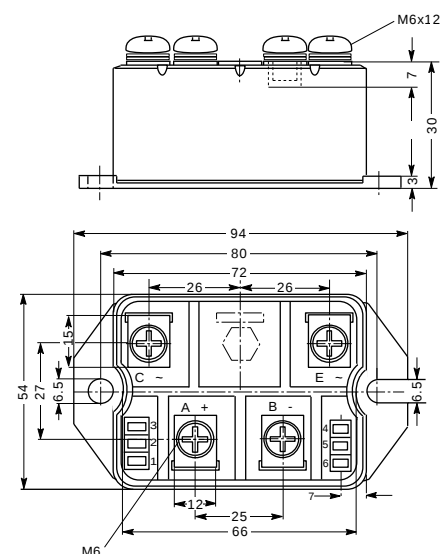
- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")

Symbol	Test Conditions	Characteristic Values
I_R	$V_R = V_{RRM}$; $V_R = V_{RRM}$;	$T_{VJ} = 25^\circ\text{C}$ $T_{VJ} = T_{VJM}$
V_F	$I_F = 300\text{ A}$;	$T_{VJ} = 25^\circ\text{C}$
V_{T0}	For power-loss calculations only	
r_T	$T_{VJ} = T_{VJM}$	
R_{thJC}	per diode, 180° per module	
R_{thJK}	per diode; 180° per module	
d_s	Creeping distance on surface	
d_A	Creepage distance in air	
a	Max. allowable acceleration	

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

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



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