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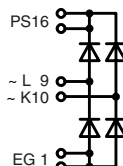
IXYS VBO 78

Single Phase Rectifier Bridge in ECO-PAC 2

$I_{dAV} = 78 \text{ A}$
 $V_{RRM} = 800-1800 \text{ V}$

Preliminary data

V_{RSM} V	V_{RRM} V	Types
900	800	VBO 78-08NO7
1300	1200	VBO 78-12NO7
1500	1400	VBO 78-14NO7
1700	1600	VBO 78-16NO7
1900	1800	VBO 78-18NO7



Pin arrangement see outlines

Symbol	Conditions	Maximum Ratings	
I_{dAV} ①	$T_C = 100^\circ\text{C}$, module	78	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	750 A 820 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	600 A 700 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	2800 A ² s 2820 A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	2200 A ² s 2250 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~
	$I_{ISOL} \leq 1 \text{ mA}$ t = 1 s	3000	V~
M_d	Mounting torque (M4)	1.5 - 2	Nm
		14 - 18	lb.in.
Weight	typ.	22	g

Features

- Package with DCB ceramic base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering

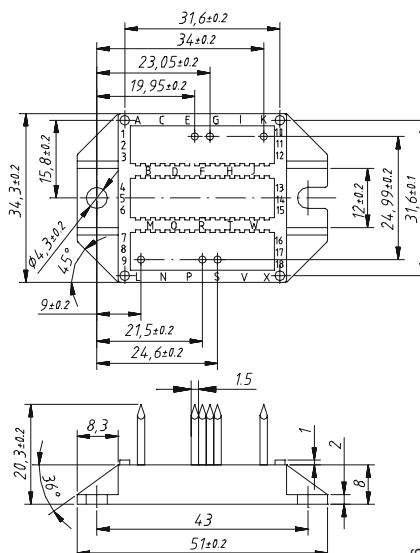
Applications

- 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 capability
- Small and light weight

Dimensions in mm (1 mm = 0.0394")



Symbol	Conditions	Characteristic Values	
I_R	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$	\leq	0.5 mA
	$V_R = V_{RRM}$; $T_{VJ} = T_{VJM}$	\leq	5 mA
V_F	$I_F = 150 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	\leq	1.6 V
V_{TO}	For power-loss calculations only		0.8 V
r_T			6 mΩ
R_{thJC}	per diode; DC current		1.2 K/W
	per module		0.3 K/W
R_{thJH}	per diode, DC current (typ.)		1.5 K/W
	per module (typ.)		0.375 K/W
d_s	Creeping distance on surface		11.2 mm
d_A	Creepage distance in air		9.7 mm
a	Max. allowable acceleration		50 m/s ²

Data according to IEC 60747 refer to a single diode unless otherwise stated
 ① for resistive load at bridge output.

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