



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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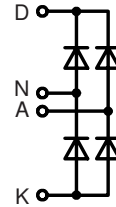
Single Phase Rectifier Bridge

Preliminary data

$$I_{dAVM} = 21 \text{ A}$$

$$V_{RRM} = 600-1200 \text{ V}$$

V_{RSM} V	V_{RRM} V	Type
700	600	VBO 19-06NO7
900	800	VBO 19-08NO7
1300	1200	VBO 19-12NO7



Symbol	Conditions	Maximum Ratings	
$I_{dAV} \text{ ①}$	$T_C = 100^\circ\text{C}$, module	21	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$;	$t = 10 \text{ ms}$ (50 Hz), sine	100 A
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine	106 A
	$T_{VJ} = T_{VJM}$	$t = 10 \text{ ms}$ (50 Hz), sine	85 A
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine	90 A
I^2t	$T_{VJ} = 45^\circ\text{C}$	$t = 10 \text{ ms}$ (50 Hz), sine	50 A ² s
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine	47 A ² s
	$T_{VJ} = T_{VJM}$	$t = 10 \text{ ms}$ (50 Hz), sine	36 A ² s
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine	33 A ² s
T_{VJ}		-40...+150	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-40...+125	$^\circ\text{C}$
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 (M4)	1.5 - 2	Nm
		14 - 18	lb.in.
Weight	typ.	18	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

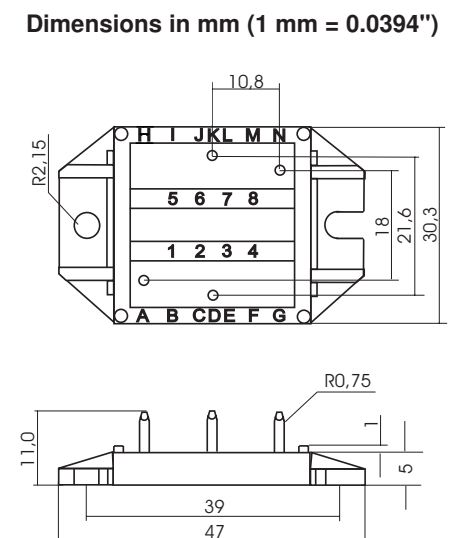
Advantages

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

Symbol	Conditions	Characteristic Values	
I_R	$V_R = V_{RRM}$;	$T_{VJ} = 25^\circ\text{C}$	$\leq 0.3 \text{ mA}$
	$V_R = V_{RRM}$;	$T_{VJ} = T_{VJM}$	$\leq 5 \text{ mA}$
V_F	$I_F = 7 \text{ A}$;	$T_{VJ} = 25^\circ\text{C}$	$\leq 1.12 \text{ V}$
V_{T0}	For power-loss calculations only		0.8 V
r_T			40 mΩ
R_{thJC}	per diode; DC current	2.3	K/W
	per module	0.58	K/W
R_{thJH}	per diode, DC current	2.8	K/W
	per module	0.7	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.

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