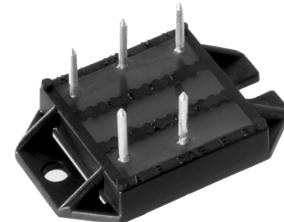
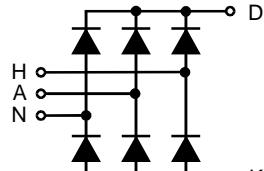


# Three Phase Rectifier Bridge

**I<sub>dAV</sub> = 68 A**  
**V<sub>RRM</sub> = 800-1600 V**

Preliminary data

V <sub>RSM</sub> V	V <sub>RRM</sub> V	Types
900	800	VUO 68-08N07
1300	1200	VUO 68-12N07
1500	1400	VUO 68-14N07
1700	1600	VUO 68-16N07



Symbol	Test Conditions	Maximum Ratings		
I <sub>dAV</sub> ①	T <sub>C</sub> = 100°C, module	68	A	
I <sub>FSM</sub>	T <sub>VJ</sub> = 45°C; V <sub>R</sub> = 0	300 320	A A	
	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine			
	T <sub>VJ</sub> = T <sub>VJM</sub> ; V <sub>R</sub> = 0	260 280	A A	
	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine			
I <sup>2</sup> t	T <sub>VJ</sub> = 45°C; V <sub>R</sub> = 0	450 425	A <sup>2</sup> s A <sup>2</sup> s	
	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine			
	T <sub>VJ</sub> = T <sub>VJM</sub> ; V <sub>R</sub> = 0	340 325	A <sup>2</sup> s A <sup>2</sup> s	
	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine			
T <sub>VJ</sub>		-40...+150	°C	
T <sub>VJM</sub>		150	°C	
T <sub>stg</sub>		-40...+125	°C	
V <sub>ISOL</sub>	50/60 Hz, RMS	2500	V~	
	I <sub>ISOL</sub> ≤ 1 mA	3000	V~	
	t = 1 min			
	t = 1 s			
M <sub>d</sub>	Mounting torque (M4)	1.5 - 2 14 - 18	Nm lb.in.	
Weight	typ.	18	g	

Symbol	Test Conditions	Characteristic Values		
I <sub>R</sub>	V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = 25°C	≤ 0.5	mA	
	V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = T <sub>VJM</sub>	≤ 3	mA	
V <sub>F</sub>	I <sub>F</sub> = 55 A; T <sub>VJ</sub> = 25°C	≤ 1.46	V	
V <sub>To</sub>	For power-loss calculations only	0.8	V	
r <sub>T</sub>		13	mΩ	
R <sub>thJC</sub>	per diode; DC current	1.1	K/W	
	per module	0.18	K/W	
R <sub>thJH</sub>	per diode, DC current	1.6	K/W	
	per module	0.27	K/W	
d <sub>S</sub>	Creeping distance on surface	11.2	mm	
d <sub>A</sub>	Creepage distance in air	9.7	mm	
a	Max. allowable acceleration	50	m/s <sup>2</sup>	

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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## Features

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

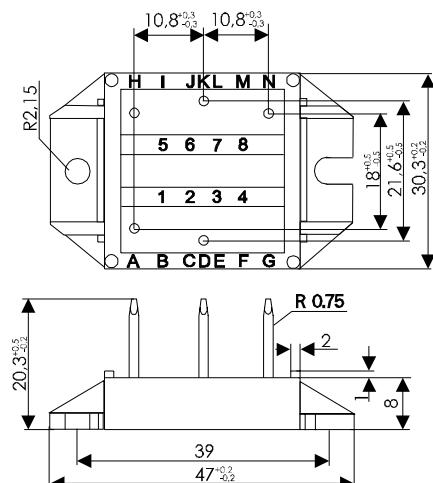
## Applications

- 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")



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