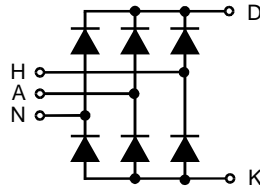


# Three Phase Rectifier Bridge

**$I_{dAV} = 28 \text{ A}$**   
 **$V_{RRM} = 600-1200 \text{ V}$**

Preliminary data

$V_{RSM}$ V	$V_{RRM}$ V	Type
700	600	VUO 28-06NO7
900	800	VUO 28-08NO7
1300	1200	VUO 28-12NO7



Symbol	Test Conditions	Maximum Ratings
$I_{dAV}$ ①	$T_C = 100^\circ\text{C}$ , module	28 A
$I_{FSM}$	$T_{VJ} = 45^\circ\text{C}$ ; $V_R = 0$	t = 10 ms (50 Hz), sine 100 A
		t = 8.3 ms (60 Hz), sine 106 A
$I^2t$	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine 85 A
		t = 8.3 ms (60 Hz), sine 90 A
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine 50 A <sup>2</sup> s
		t = 8.3 ms (60 Hz), sine 47 A <sup>2</sup> s
$T_{VJ}$	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine 36 A <sup>2</sup> s
		t = 8.3 ms (60 Hz), sine 33 A <sup>2</sup> s
$T_{VJ}$		-40...+150 °C
$T_{VJM}$		150 °C
$T_{stg}$		-40...+125 °C
$V_{ISOL}$	50/60 Hz, RMS t = 1 min $I_{ISOL} \leq 1 \text{ mA}$ t = 1 s	2500 V~
		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

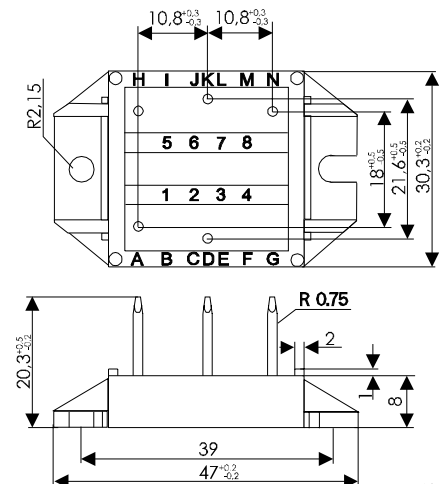
- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling capability
- Small and light weight

Symbol	Test Conditions	Characteristic Values
$I_R$	$V_R = V_{RRM}$ ; $V_R = V_{RRM}$	$T_{VJ} = 25^\circ\text{C}$ ≤ 0.3 mA
		$T_{VJ} = T_{VJM}$ ≤ 5 mA
$V_F$	$I_F = 7 \text{ A}$ ; $T_{VJ} = 25^\circ\text{C}$	≤ 1.12 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	0.39 K/W
$R_{thJH}$	per diode; DC current	2.8 K/W
	per module	0.47 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 <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.

## Dimensions in mm (1 mm = 0.0394")



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