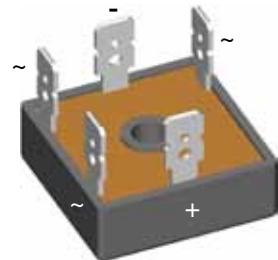
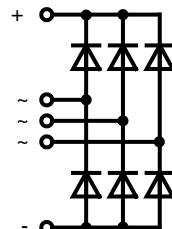


# Three Phase Rectifier Bridge

$I_{dAV} = 35 \text{ A}$   
 $V_{RRM} = 800-1800 \text{ V}$

$V_{RSM}$ V	$V_{RRM}$ V	Type
900	800	VUO 36-08NO8
1300	1200	VUO 36-12NO8
1500	1400	VUO 36-14NO8
1700	1600	VUO 36-16NO8
1900	1800	VUO 36-18NO8



RL

Symbol	Conditions	Maximum Ratings		
$I_{dAV}$	$T_C = 85^\circ\text{C}$ , module	27	A	
$I_{dAVM}$	$T_C = 62^\circ\text{C}$ , module	35	A	
$I_{FSM}$	$T_{VJ} = 45^\circ\text{C}$ ; $t = 10 \text{ ms}$ (50 Hz)	550	A	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	600	A	
	$T_{VJ} = T_{VJM}$ ; $t = 10 \text{ ms}$ (50 Hz)	500	A	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	550	A	
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ ; $t = 10 \text{ ms}$ (50 Hz)	1520	$\text{A}^2\text{s}$	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	1520	$\text{A}^2\text{s}$	
	$T_{VJ} = T_{VJM}$ ; $t = 10 \text{ ms}$ (50 Hz)	1250	$\text{A}^2\text{s}$	
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	1250	$\text{A}^2\text{s}$	
$T_{VJ}$		-40...+150	$^\circ\text{C}$	
$T_{VJM}$		150	$^\circ\text{C}$	
$T_{stg}$		-40...+150	$^\circ\text{C}$	
$V_{ISOL}$	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 (M5) (10-32 UNF)	$2 \pm 10\%$ $18 \pm 10\%$	Nm lb.in.	
<b>Weight</b>	Typ.	22	g	

Symbol	Conditions	Characteristic Values		
$I_R$	$V_R = V_{RRM}$ $T_{VJ} = 25^\circ\text{C}$	0.3	mA	
	$T_{VJ} = T_{VJM}$	2.0	mA	
$V_F$	$I_F = 150 \text{ A}$ $T_{VJ} = 25^\circ\text{C}$	1.7	V	
$V_{TO}$	For power-loss calculations only	0.8	V	
$r_t$		7.4	$\text{m}\Omega$	
$R_{thJC}$	per diode; 120° el. per module	7.50 1.25	K/W	
$R_{thJH}$	per diode; 120° el. per module	8.40 1.40	K/W	
$d_s$	Creeping distance on surface	12.7	mm	
$d_A$	Creepage distance in air	9.4	mm	
$a$	Max. allowable acceleration	50	$\text{m}/\text{s}^2$	

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

## Features

- Package with 1/4" fast-on terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

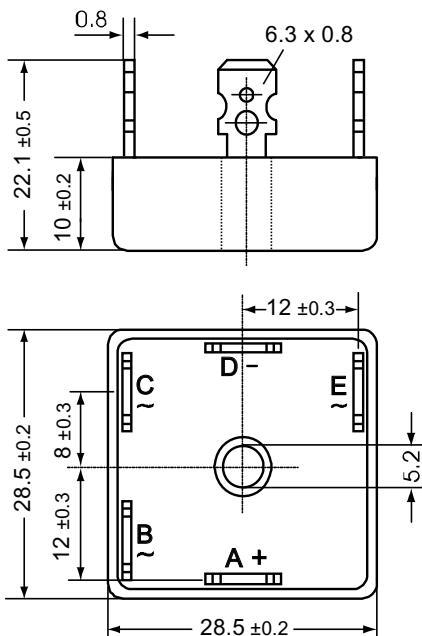
## Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

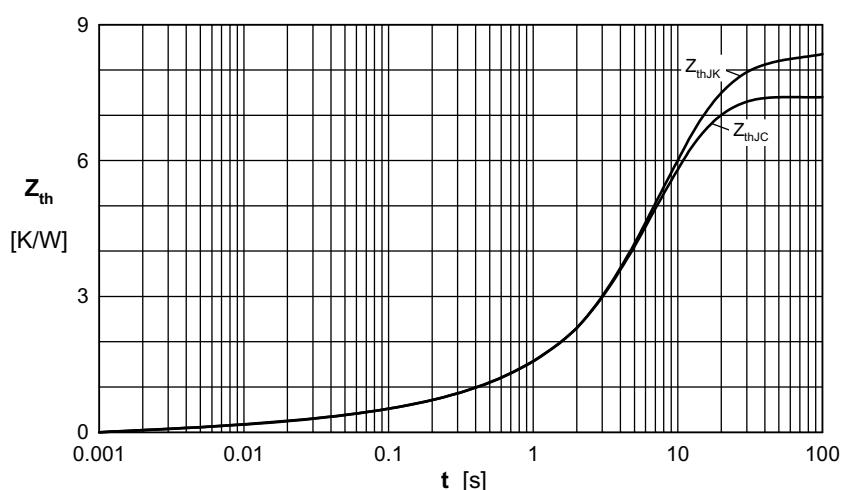
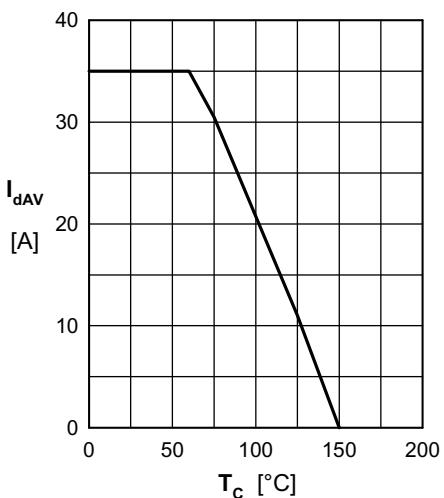
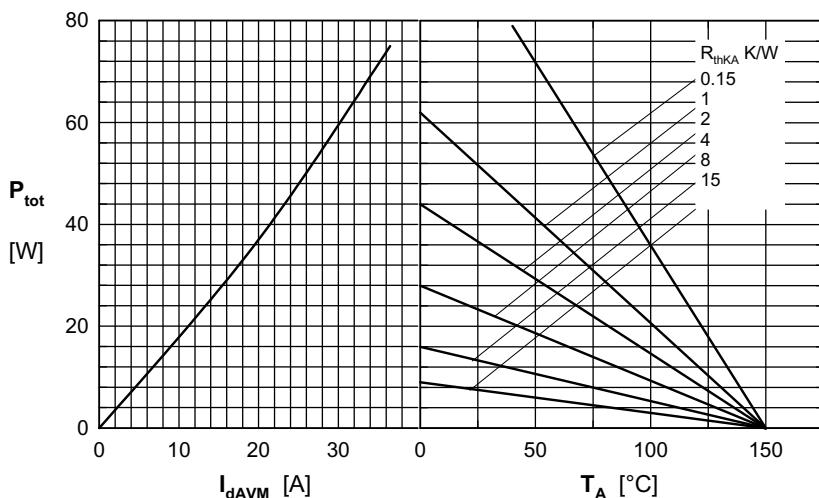
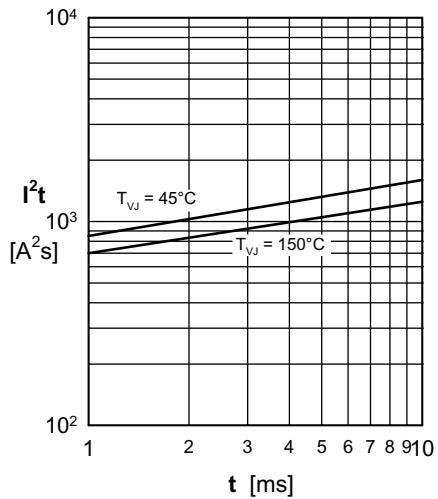
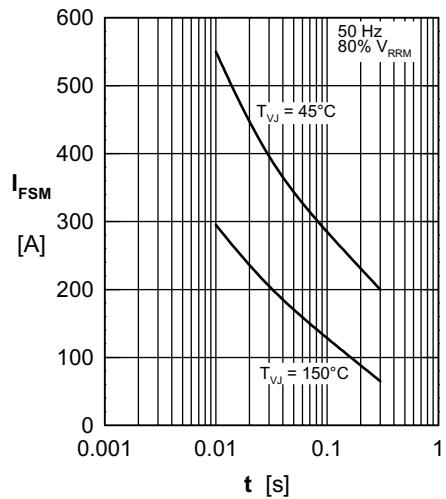
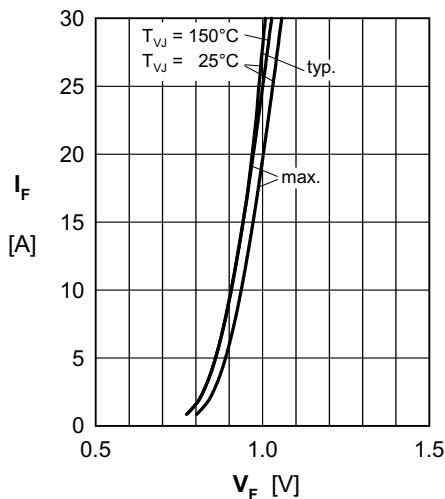
## Advantages

- Easy to mount with one screw
- Space and weight savings
- Improved temperature & power cycling

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



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



Constants for  $Z_{thJC}$  calculation:

i	R <sub>thi</sub> (K/W)	t <sub>i</sub> (s)
1	0.183	0.032
2	0.528	0.085
3	1.89	5.9
4	4.9	8.3

Constants for  $Z_{thJK}$  calculation:

i	R <sub>thi</sub> (K/W)	t <sub>i</sub> (s)
1	0.183	0.032
2	0.528	0.085
3	1.89	5.9
4	4.9	8.3
5	0.9	28