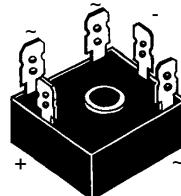
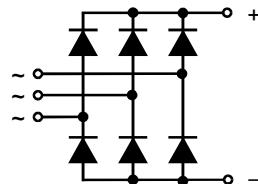


## Three Phase Rectifier Bridge

$I_{dAVM} = 35 \text{ A}$   
 $V_{RRM} = 1200-1800 \text{ V}$

$V_{RSM}$ V	$V_{RRM}$ V	Type
600	600	VUO 36-06NO8
1200	1200	VUO 36-12NO8
1400	1400	VUO 36-14NO8
1600	1600	VUO 36-16NO8
1800	1800	VUO 36-18NO8



Symbol	Test 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	
$I_{FSM}$	$T_{VJ} = 45^\circ\text{C}$ ; $V_R = 0$	550 600	A A	
	$T_{VJ} = T_{VJM}$ $V_R = 0$	500 550	A A	
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	1520 1520	$\text{A}^2\text{s}$ $\text{A}^2\text{s}$	
	$T_{VJ} = T_{VJM}$ $V_R = 0$	1250 1250	$\text{A}^2\text{s}$ $\text{A}^2\text{s}$	
$T_{VJ}$		-40...+150	$^\circ\text{C}$	
$T_{VJM}$		150	$^\circ\text{C}$	
$T_{stg}$		-40...+150	$^\circ\text{C}$	
$V_{ISOL}$	50/60 Hz, RMS $I_{ISOL} \leq 1 \text{ mA}$	2500 3000	V~ V~	
$M_d$	Mounting torque (M5) (10-32 UNF)	$2 \pm 10\%$ $18 \pm 10\%$	Nm lb.in.	
Weight	typ.	22	g	

### 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

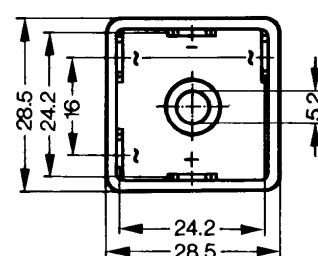
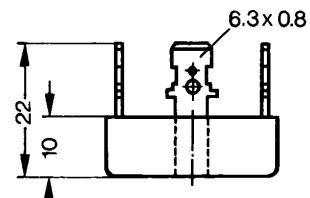
### Applications

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

### Advantages

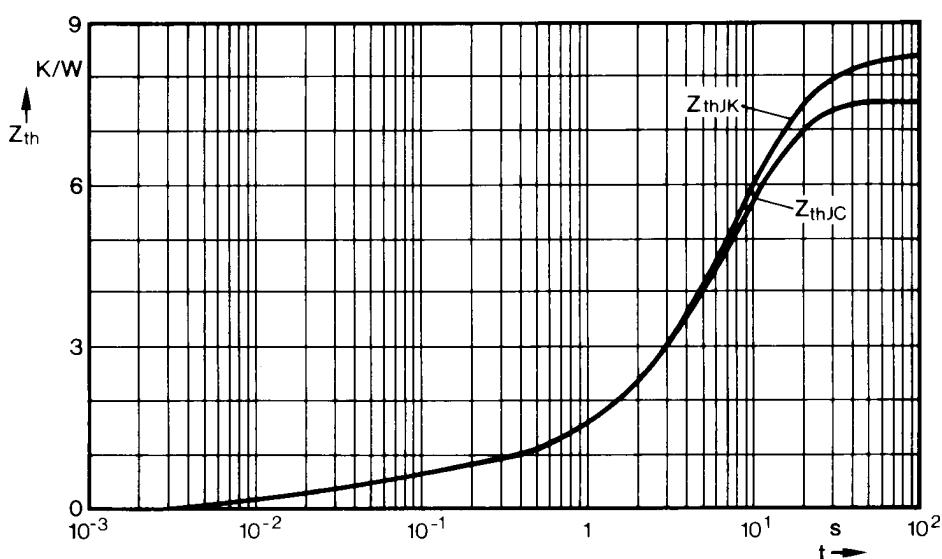
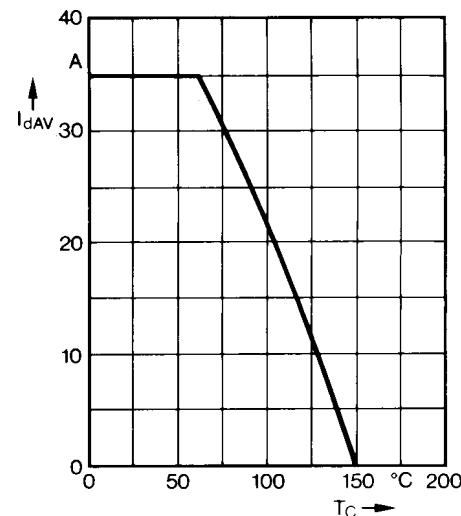
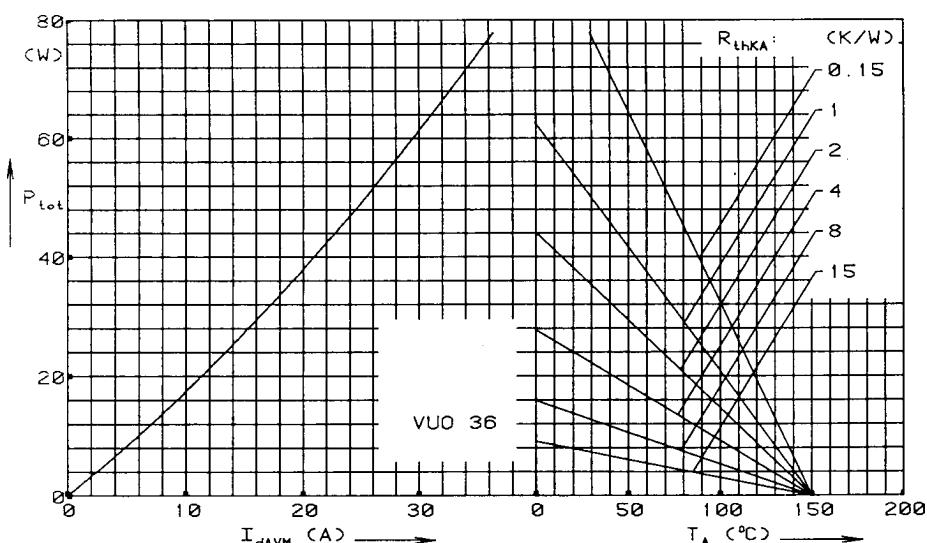
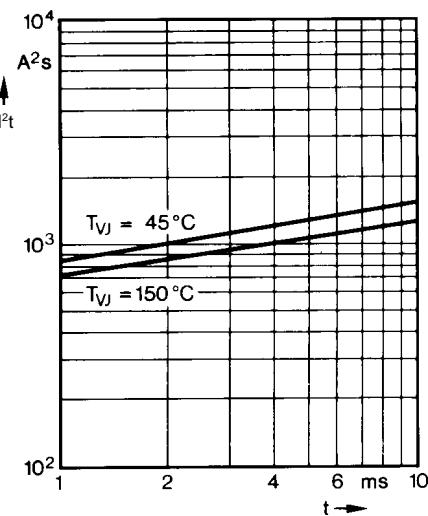
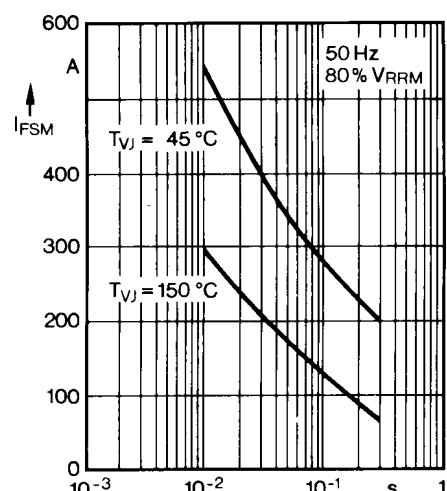
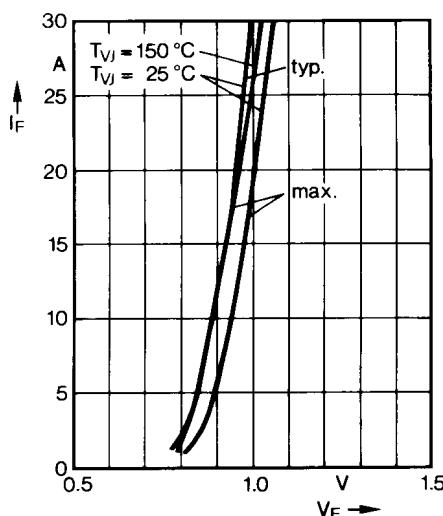
- Easy to mount with one screw
- Space and weight savings
- Improved temperature and power cycling

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



Symbol	Test Conditions	Characteristic Values		
$I_R$	$T_{VJ} = 25^\circ\text{C}$ ; $T_{VJ} = T_{VJM}$ ;	$V_R = V_{RRM}$ $V_R = V_{RRM}$	$\leq 0.3$ $\leq 2.0$	mA mA
$V_F$	$I_F = 150 \text{ A}$ ; $T_{VJ} = 25^\circ\text{C}$		$\leq 1.7$	V
$V_{TO}$	For power-loss calculations only		0.8	V
$r_T$			7.4	$\text{m}\Omega$
$R_{thJC}$	per diode; DC current per module		7.5 1.25	K/W K/W
$R_{thJH}$	per diode; DC current per module		8.4 1.4	K/W 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 DIN IEC 60747 and refer to a single diode unless otherwise stated.  
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	28.0