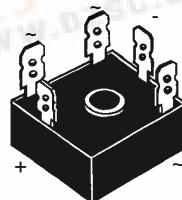
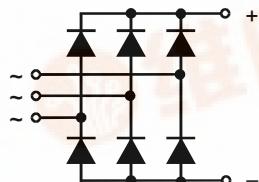




## Three Phase Rectifier Bridge

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

$V_{RSM}$ 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			Features
$I_{dAV}$	$T_c = 85^\circ\text{C}$ , module		27	A		
$I_{dAVM}$	$T_c = 62^\circ\text{C}$ , module		35	A		
$I_{FSM}$	$T_{VJ} = 45^\circ\text{C};$ $V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ $t = 8.3 \text{ ms (60 Hz), sine}$	550	A		
			600	A		
	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ $t = 8.3 \text{ ms (60 Hz), sine}$	500	A		
			550	A		
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ $t = 8.3 \text{ ms (60 Hz), sine}$	1520	$\text{A}^2\text{s}$		
			1520	$\text{A}^2\text{s}$		
	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ $t = 8.3 \text{ ms (60 Hz), sine}$	1250	$\text{A}^2\text{s}$		
			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 $I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ min}$ $t = 1 \text{ s}$	2500	V~		
			3000	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

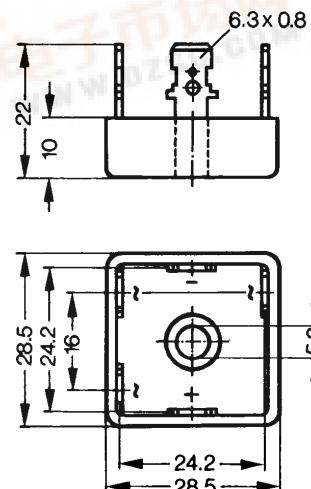
### Applications

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

### Advantages

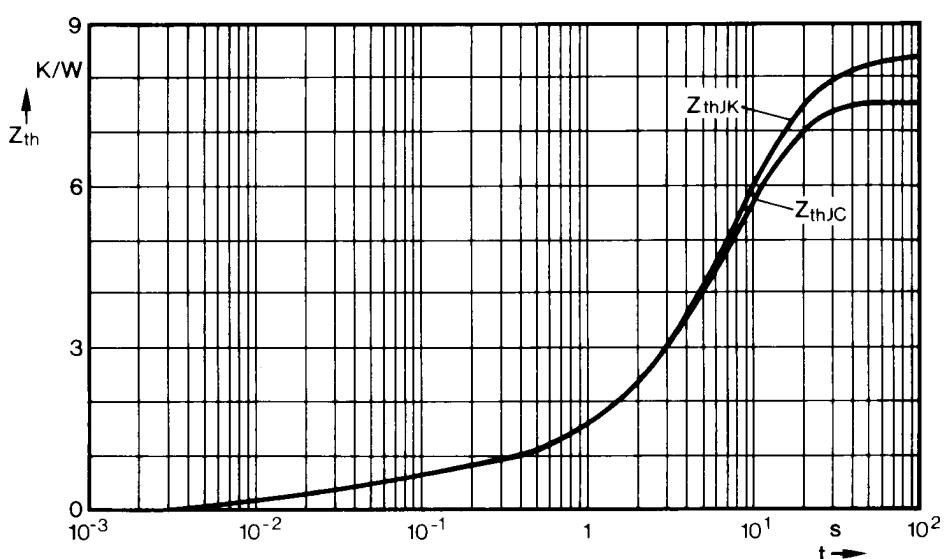
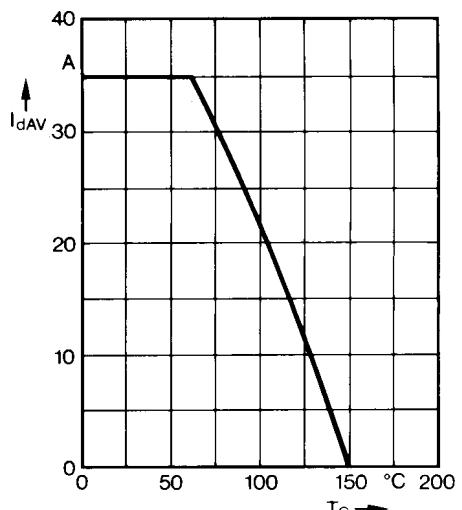
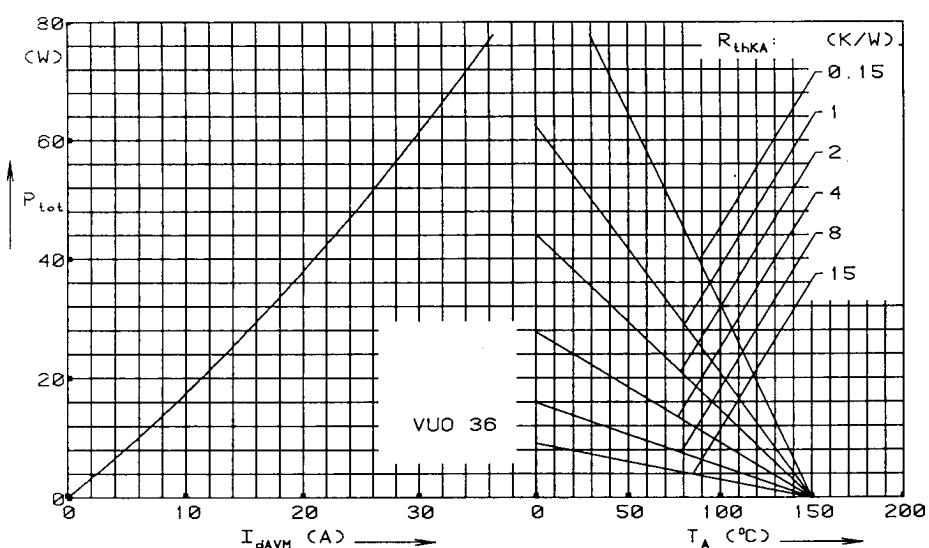
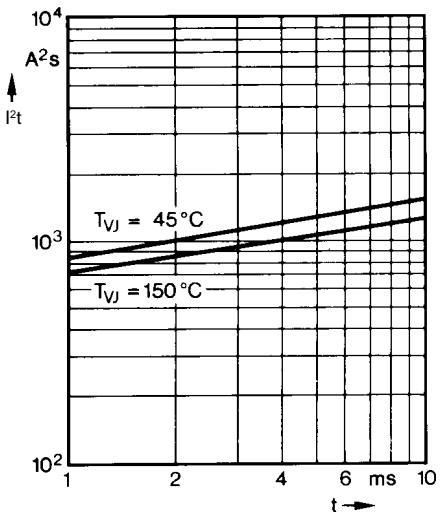
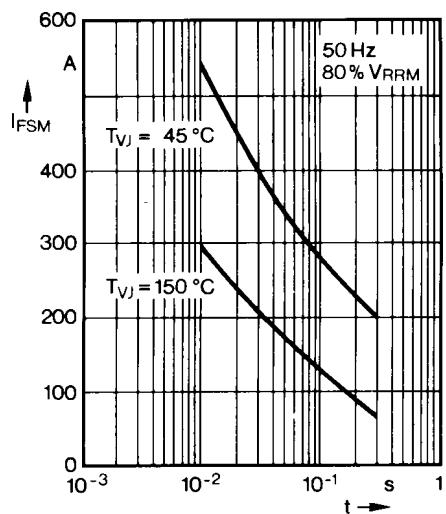
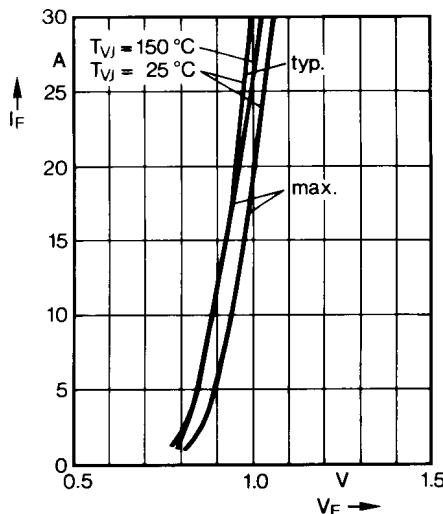
- Easy to mount with one screw
- Space and weight savings
- Improved temperature and power cycling

### 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	
$V_F$	$I_F = 150 \text{ A};$	$T_{VJ} = 25^\circ\text{C}$	$\leq 1.7$	V	
$V_{TO}$	For power-loss calculations only		0.8	V	
$r_T$			7.4	$\text{m}\Omega$	
$R_{thJC}$	per diode; DC current		7.5	K/W	
	per module		1.25	K/W	
$R_{thJH}$	per diode; DC current		8.4	K/W	
	per module		1.4	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