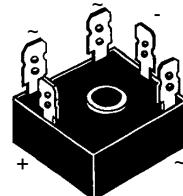
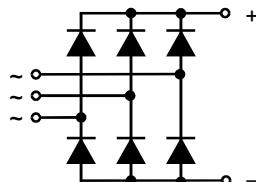


Three Phase Rectifier Bridge

I_{dAVM} = 25 A
V_{RRM} = 1200-1800 V

V _{RSM} V	V _{RRM} V	Type
600	600	VUO 25-06NO8
1200	1200	VUO 25-12NO8
1400	1400	VUO 25-14NO8
1600	1600	VUO 25-16NO8
1800	1800	VUO 25-18NO8



Symbol	Test Conditions	Maximum Ratings		
I _{dAV}	T _C = 85°C, module	20	A	
I _{dAVM}	T _C = 63°C, module	25	A	
I _{FSM}	T _{VJ} = 45°C; V _R = 0	380 400	A A	
	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine			
	T _{VJ} = T _{VJM} V _R = 0	360 400	A A	
I ² t	T _{VJ} = 45°C V _R = 0	725 750	A ² s A ² s	
	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine			
	T _{VJ} = T _{VJM} V _R = 0	650 650	A ² s A ² s	
T _{VJ}		-40...+150	°C	
T _{VJM}		150	°C	
T _{stg}		-40...+150	°C	
V _{ISOL}	50/60 Hz, RMS I _{ISOL} ≤ 1 mA	2500 3000	V~ V~	
M _d	Mounting torque (M5) (10-32 UNF)	2 ± 10 % 18 ± 10 %	Nm lb.in.	
Weight	typ.	22	g	

Symbol	Test Conditions	Characteristic Values		
I _R	T _{VJ} = 25°C; T _{VJ} = T _{VJM} ;	V _R = V _{RRM} V _R = V _{RRM}	≤ 0.3 ≤ 5.0	mA mA
V _F	I _F = 150 A; T _{VJ} = 25°C		≤ 2.2	V
V _{TO}	For power-loss calculations only		0.85	V
r _T			12	mΩ
R _{thJC}	per diode; DC current per module		9.3 1.55	K/W K/W
R _{thJH}	per diode; DC current per module		10.2 1.7	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	m/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.

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

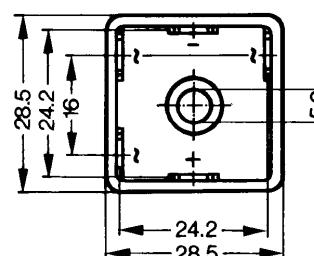
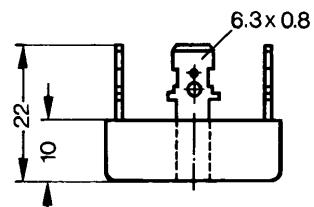
Applications

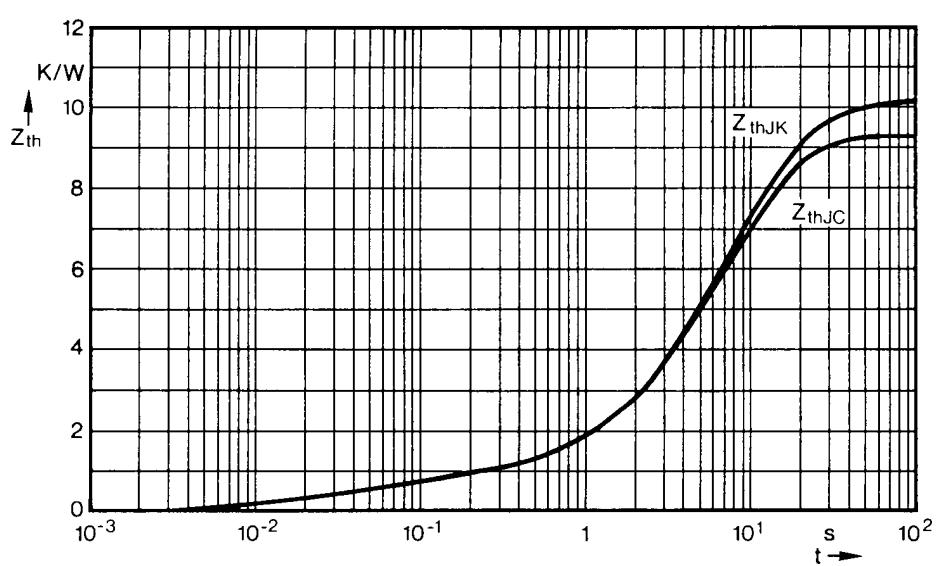
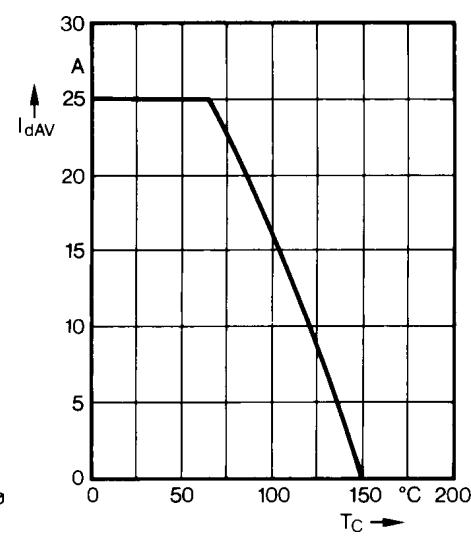
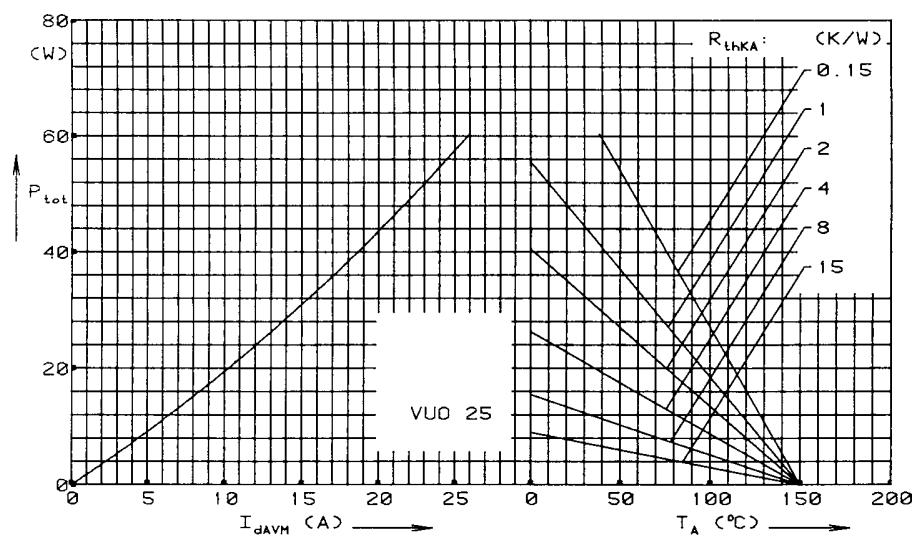
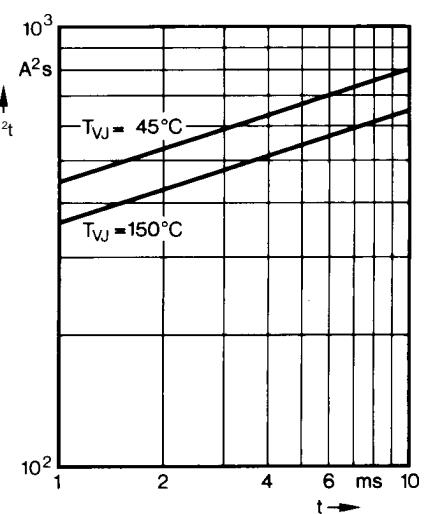
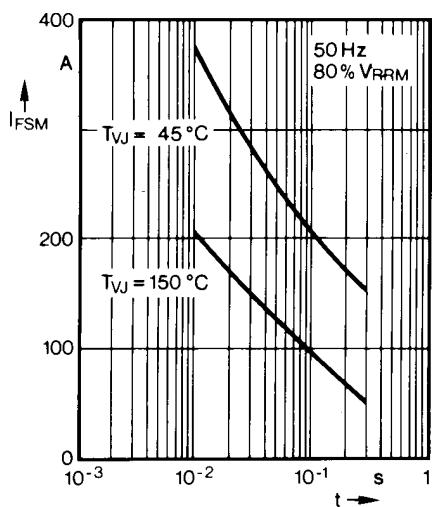
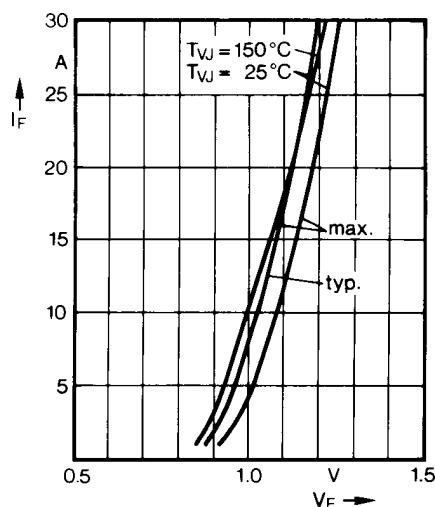
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

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

Dimensions in mm (1 mm = 0.0394")





Constants for Z_{thJC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.194	0.024
2	0.556	0.07
3	2.25	5.8
4	6.3	8.5
5	0.9	28.0

Constants for Z_{thJK} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.194	0.024
2	0.556	0.07
3	2.25	5.8
4	6.3	8.5
5	0.9	28.0