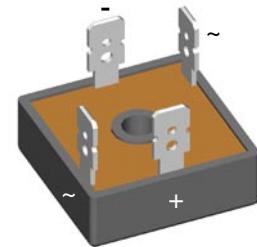
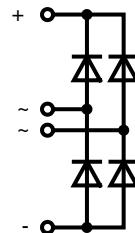


Three Phase Rectifier Bridge

I_{dAV} = 30 A
V_{RRM} = 800-1800 V

V _{RSM}	V _{RRM}	Type
V _{DSM}	V _{DRM}	
V	V	
800	800	VBO 36-08N08
1200	1200	VBO 36-12N08
1400	1400	VBO 36-14N08
1600	1600	VBO 36-16N08
1800	1800	VBO 36-18N08



RU

Symbol	Conditions	Maximum Ratings		
I _{dAV}	T _C = 85°C, module	25	A	
I _{dAVM}	T _C = 62°C, module	30	A	
I _{FSM}	T _{VJ} = 45°C; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	550	A	
	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	600	A	
	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	500	A	
	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	550	A	
I ² t	T _{VJ} = 45°C; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	1520	A ² s	
	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	1520	A ² s	
	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	1250	A ² s	
	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	1250	A ² s	
T _{VJ}		-40...+150	°C	
T _{VJM}		150	°C	
T _{stg}		-40...+150	°C	
V _{ISOL}	50/60 Hz, RMS t = 1 min I _{ISOL} ≤ 1 mA t = 1 s	2500	V~	
		3000	V~	
M _d	Mounting torque (M5) (10-32 UNF)	2 ±10%	Nm	
		18 ±10%	lb.in.	
Weight	Typ.	22	g	

Symbol	Conditions	Characteristic Values		
I _R	V _R = V _{RRM} T _{VJ} = 25°C T _{VJ} = T _{VJM}	0.3	mA	
		2.0	mA	
V _F	I _F = 150 A T _{VJ} = 25°C	1.7	V	
V _{TO}	For power-loss calculations only	0.8	V	
r _t		5.8	mΩ	
R _{thJC}	per diode; 120° el. per module	6.20	K/W	
R _{thCH}	per diode; 120° el. per module	1.55	K/W	
		7.40	K/W	
		1.85	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 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

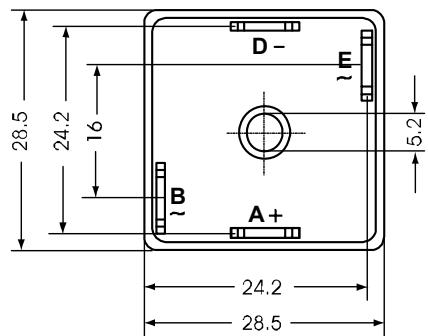
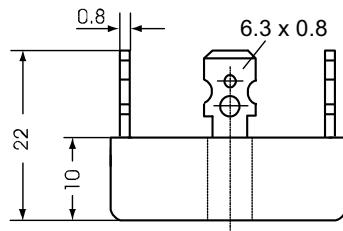
Applications

- 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.

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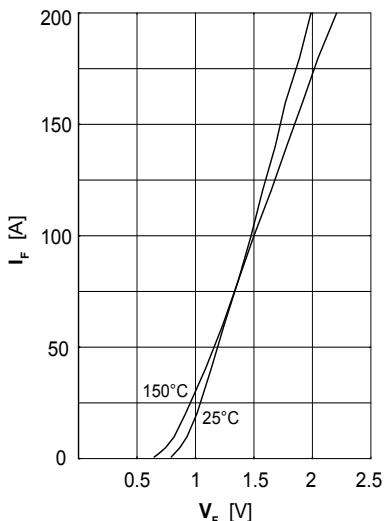


Fig. 1 Forward current versus voltage drop per diode

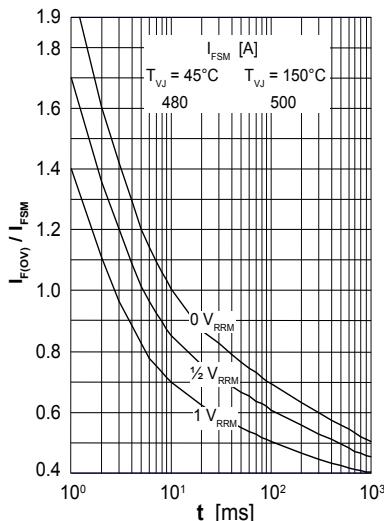


Fig. 2 Surge overload current per diode
 I_{FSM} : crest value, t: duration

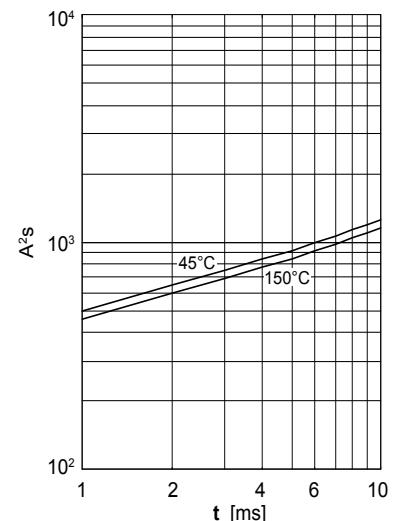


Fig. 3 I^2t versus time (1-10 ms)
per diode or thyristor

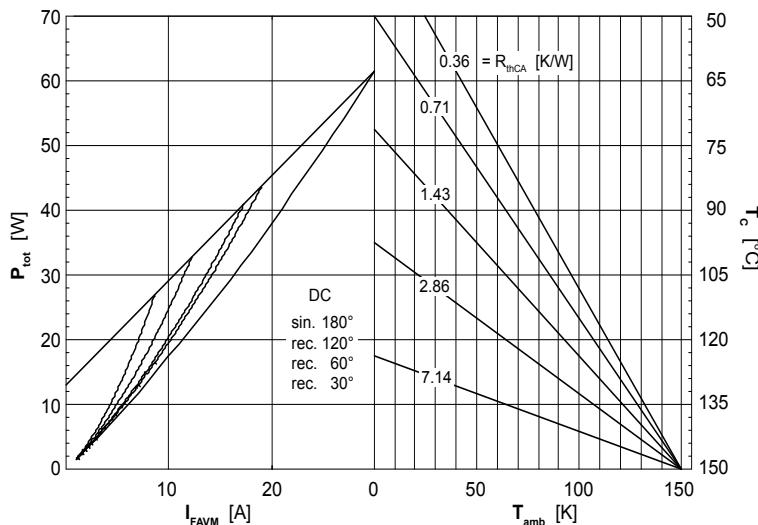


Fig. 4 Power dissipation vs. direct output current and ambient temperature

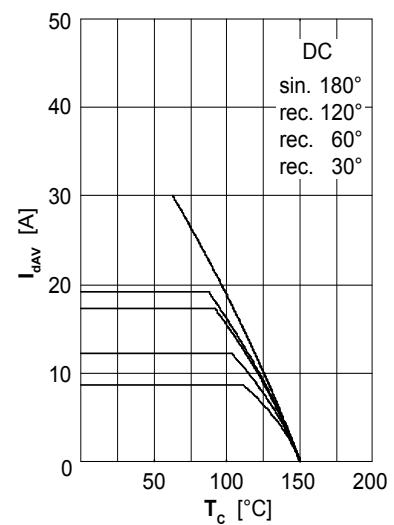


Fig. 5 Maximum forward current at case temperature

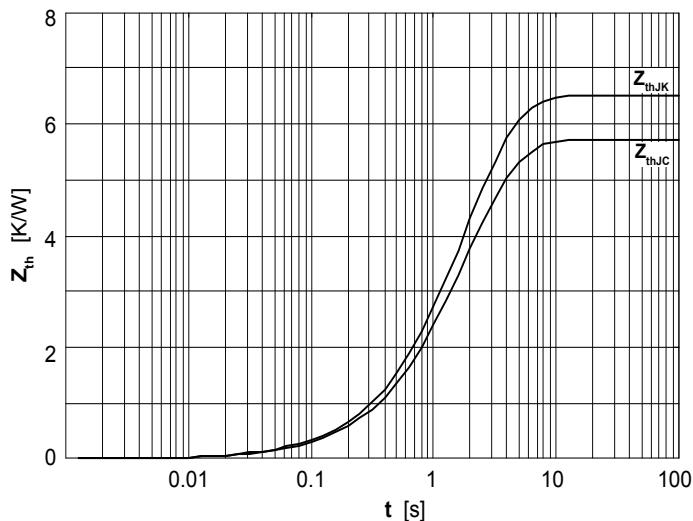


Fig. 6 Transient thermal impedance per diode or thyristor, calculated