

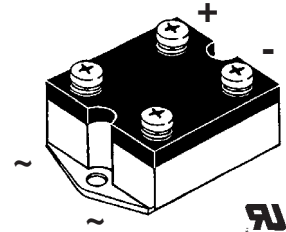
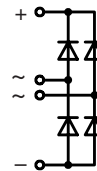
Single Phase Rectifier Bridge

$$I_{dAVM} = 35 \text{ A}$$

$$V_{RRM} = 1200-1800 \text{ V}$$

V_{RSM} V	V_{RRM} V	Type
800	800	VBO 30-08NO7
1200	1200	VBO 30-12NO7
1400	1400	VBO 30-14NO7
1600	1600	VBO 30-16NO7
1800	1800	VBO 30-18NO7*

* delivery time on request



Symbol	Conditions	Maximum Ratings	
I_{dAVM}	$T_C = 85^\circ\text{C}$, module	35	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	400 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine	440 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	360 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine	400 A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	800 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine	810 A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	650 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine	670 A ² s
T_{VJ}		-40...+150	°C
T_{VJM}		150	°C
T_{stg}		-40...+150	°C
V_{ISOL}	50/60 Hz, RMS $I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ min}$	2500 V~
		$t = 1 \text{ s}$	3000 V~
M_d	Mounting torque (M4)	1.5 ±15%	Nm
		13 ±15%	lb.in.
	Terminal connection torque (M4)	1.5 ±15%	Nm
		13 ±15%	lb.in.
Weight	typ.	135	g

Symbol	Conditions	Characteristic Values	
I_R	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$	$\leq$	0.3 mA
	$V_R = V_{RRM}$; $T_{VJ} = T_{VJM}$	$\leq$	5.0 mA
V_F	$I_F = 150 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	$\leq$	2.2 V
V_{T0}	For power-loss calculations only	0.85	V
r_T	$T_{VJ} = T_{VJM}$	12	mΩ
R_{thJC}	per diode; DC current	2.8	K/W
	per module	0.7	K/W
R_{thJK}	per diode; DC current	3.4	K/W
	per module	0.85	K/W

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

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

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

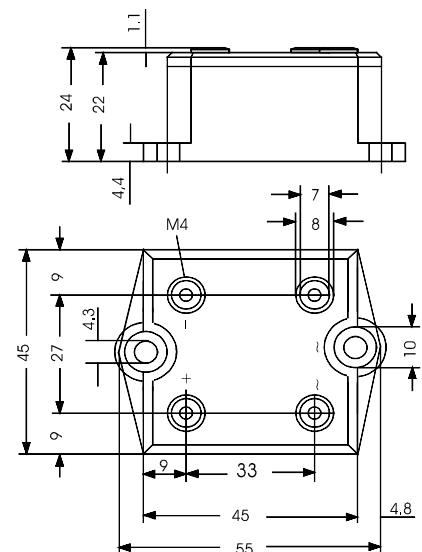
Applications

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

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")



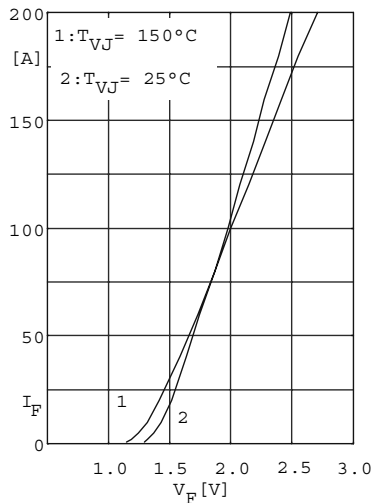


Fig. 1 Forward current versus voltage drop per diode

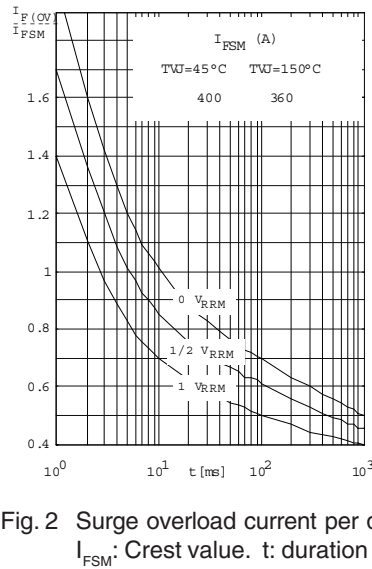


Fig. 2 Surge overload current per diode
 I_{FSM} : Crest value. t : duration

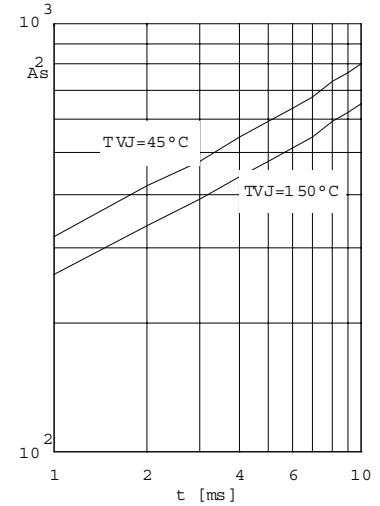


Fig. 3 $\int i^2 dt$ versus time
(1-10ms) per diode or thyristor

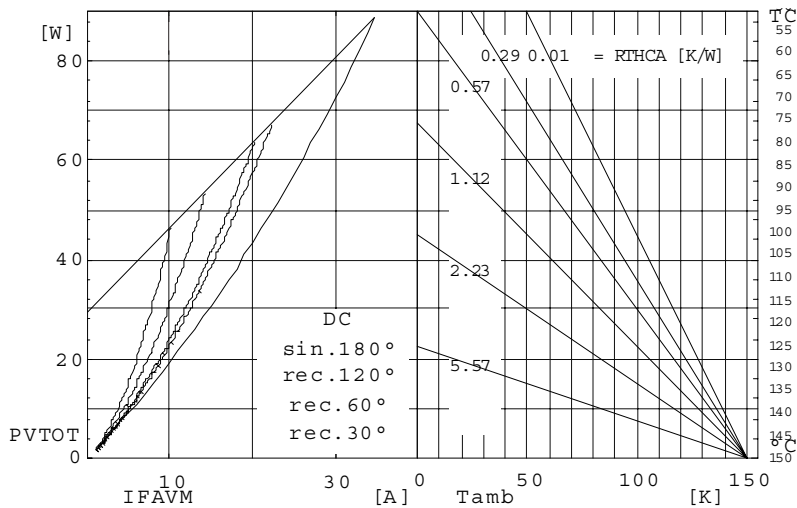


Fig. 4 Power dissipation versus direct output current and ambient temperature

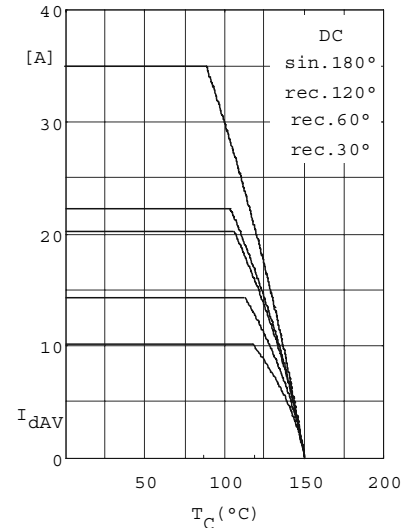


Fig. 5 Maximum forward current at case temperature

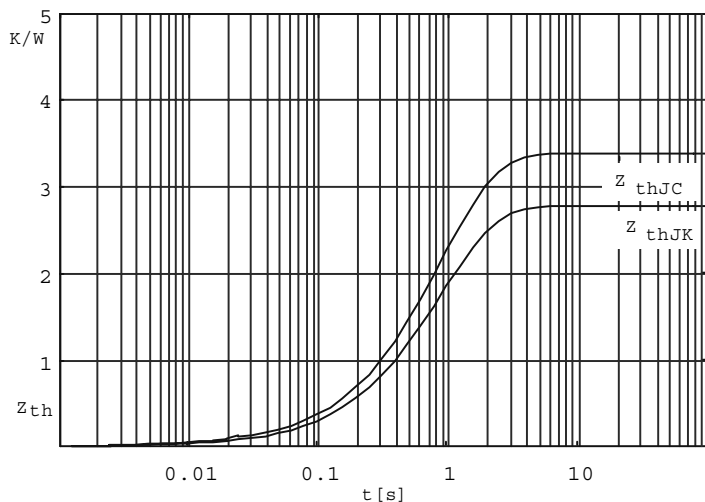


Fig. 6 Transient thermal impedance per diode or thyristor, calculated

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