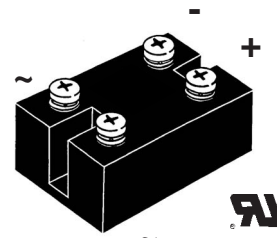
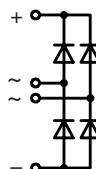


Single Phase Rectifier Bridge

$$I_{dAVM} = 124 \text{ A}$$

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

V_{RSM} V	V_{RRM} V	Type
900	800	VBO 125-08NO7
1200	1200	VBO 125-12NO7
1400	1400	VBO 125-14NO7
1600	1600	VBO 125-16NO7
1800	1800	VBO 125-18NO7



Symbol	Conditions	Maximum Ratings
I_{dAVM}	$T_C = 85^\circ\text{C}$, module	124 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 1800 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine 1950 A
	$T_{VJ} = T_{VJM}$	$t = 10 \text{ ms}$ (50 Hz), sine 1600 A
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine 1800 A
I^2t	$T_{VJ} = 45^\circ\text{C}$	$t = 10 \text{ ms}$ (50 Hz), sine 16200 A ² s
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine 16000 A ² s
	$T_{VJ} = T_{VJM}$	$t = 10 \text{ ms}$ (50 Hz), sine 12800 A ² s
	$V_R = 0$	$t = 8.3 \text{ ms}$ (60 Hz), sine 13600 A ² s
T_{VJ}		-40...+150 °C
T_{VJM}		150 °C
T_{stg}		-40...+150 °C
V_{ISOL}	50/60 Hz, RMS	$t = 1 \text{ min}$ 2500 V~
	$I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ s}$ 3000 V~
M_d	Mounting torque (M5)	5 ±15% Nm
		44 ±15% lb.in.
	Terminal connection torque (M5)	5 ±15% Nm
		44 ±15% lb.in.
Weight	typ.	225 g

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

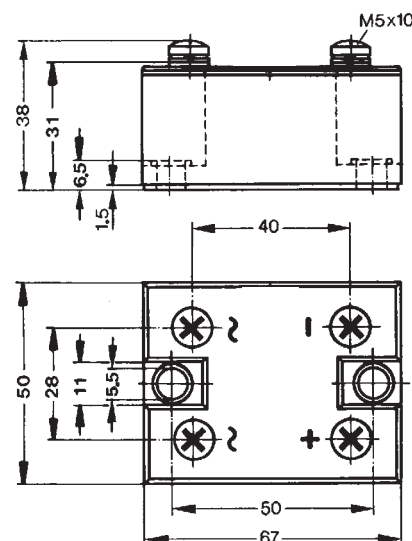
Applications

- 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")



Symbol	Conditions	Characteristic Values
I_R	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$	$\leq 0.3 \text{ mA}$
	$V_R = V_{RRM}$; $T_{VJ} = T_{VJM}$	$\leq 8.0 \text{ mA}$
V_F	$I_F = 150 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	$\leq 1.3 \text{ V}$
V_{T0}	For power-loss calculations only	0.8 V
r_T	$T_{VJ} = T_{VJM}$	3 mΩ
R_{thJC}	per diode; 180°	0.83 K/W
	per module; 180°	0.138 K/W
R_{thJK}	per diode; 180°	1.13 K/W
	per module; 180°	0.188 K/W

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

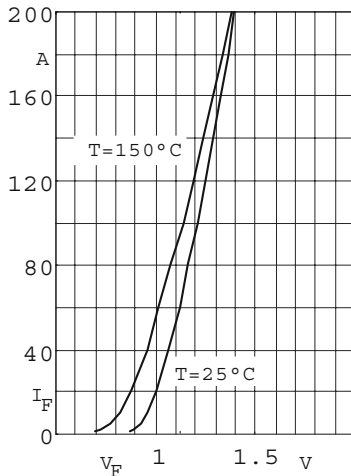


Fig. 1 Forward current versus voltage drop per diode

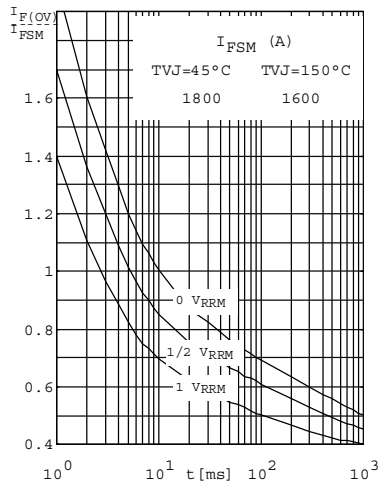


Fig. 2 Surge overload current per diode I_{FSM} ; Crest value. t: duration

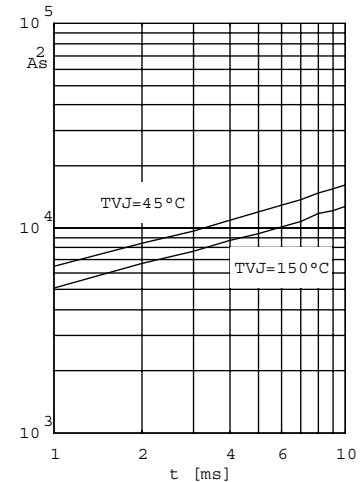


Fig. 3 $\int i^2 dt$ versus time (1-10ms) per diode or thyristor

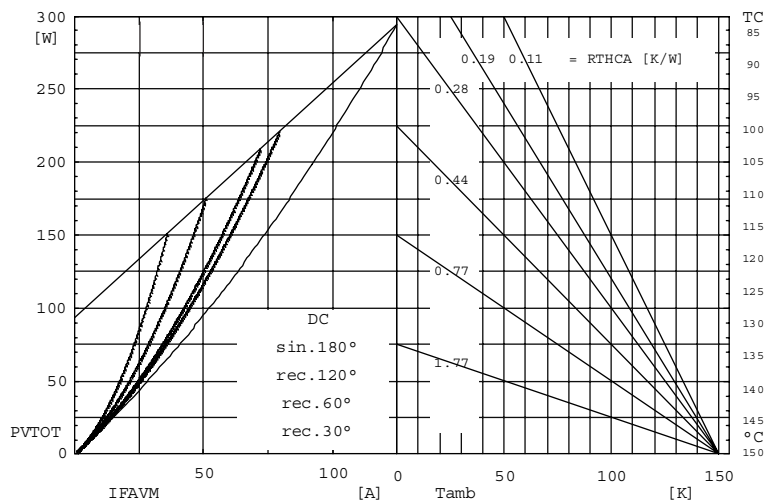


Fig. 4 Power dissipation versus direct output current and ambient temperature

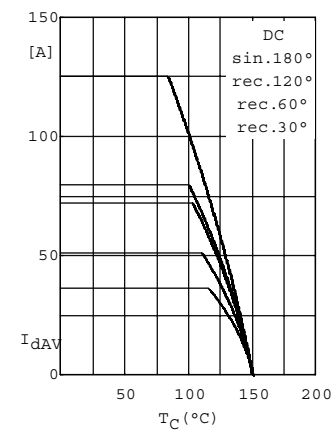


Fig. 5 Maximum forward current at case temperature

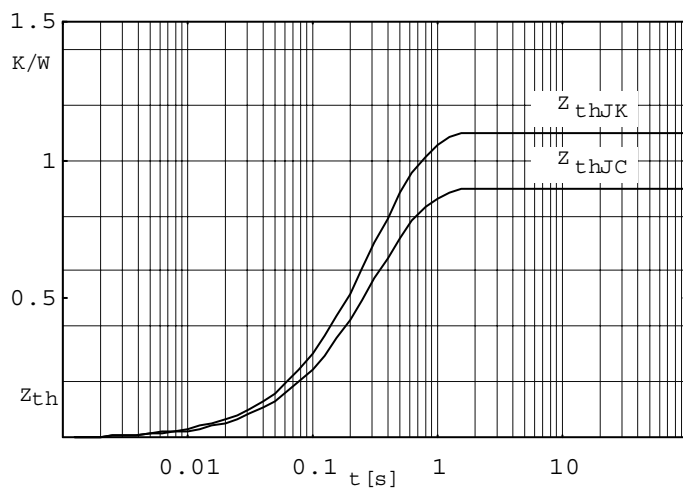


Fig. 6 Transient thermal impedance per diode or thyristor, calculated

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Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
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➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com