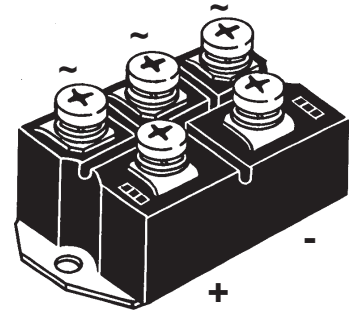
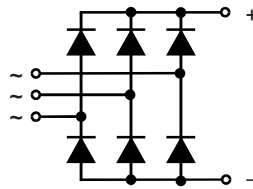


Three Phase Rectifier Bridge

I_{dAV} = 248 A
V_{RRM} = 800-1800 V

V _{RSM} V	V _{RRM} V	Type
800	800	VUO 190-08NO7
1200	1200	VUO 190-12NO7
1400	1400	VUO 190-14NO7
1600	1600	VUO 190-16NO7
1800	1800	VUO 190-18NO7*

* delivery time on request



Symbol	Test Conditions	Maximum Ratings
I _{dAV}	T _C = 100°C, module	248 A
I _{dAV}	T _A = 35°C (R _{thCA} = 0.2 K/W), module	165 A
I _{FSM}	T _{VJ} = 45°C; t = 10 ms (50 Hz), sine	2800 A
	V _R = 0; t = 8.3 ms (60 Hz), sine	3300 A
I ² t	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz), sine	2500 A
	V _R = 0; t = 8.3 ms (60 Hz), sine	2750 A
I ² t	T _{VJ} = 45°C; t = 10 ms (50 Hz), sine	39 200 A ² s
	V _R = 0; t = 8.3 ms (60 Hz), sine	45 000 A ² s
I ² t	T _{VJ} = T _{VJM} ; t = 10 ms (50 Hz), sine	31 200 A ² s
	V _R = 0; t = 8.3 ms (60 Hz), sine	31 300 A ² s
T _{VJ}		-40...+150 °C
T _{VJM}		150 °C
T _{stg}		-40...+125 °C
V _{ISOL}	50/60 Hz, RMS; t = 1 min	2500 V~
	I _{ISOL} ≤ 1 mA; t = 1 s	3000 V~
M _d	Mounting torque (M6)	5 ± 15 % Nm
	Terminal connection torque (M6)	5 ± 15 % Nm
Weight	typ.	270 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 E72873

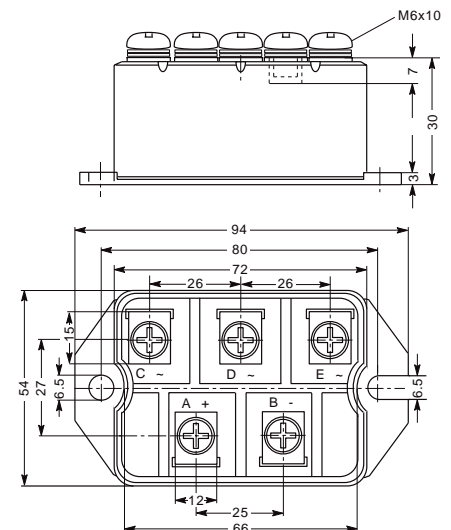
Applications

- 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")



Data according to IEC 60747 and refer to a single diode unless otherwise stated
 IXYS reserves the right to change limits, test conditions and dimensions.

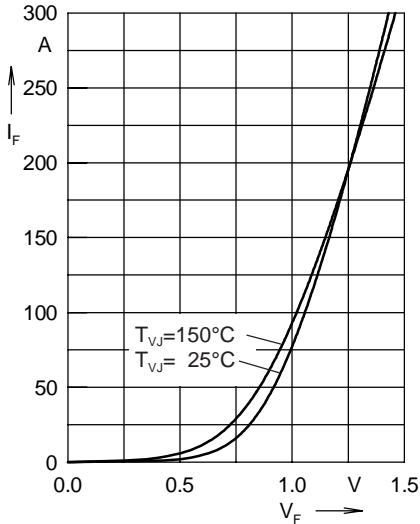


Fig. 4 Forward current versus voltage drop per diode

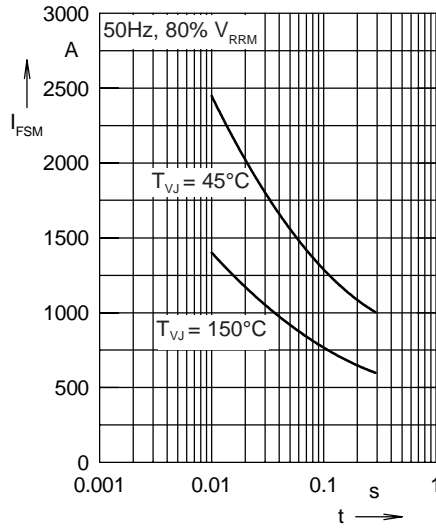


Fig. 5 Surge overload current

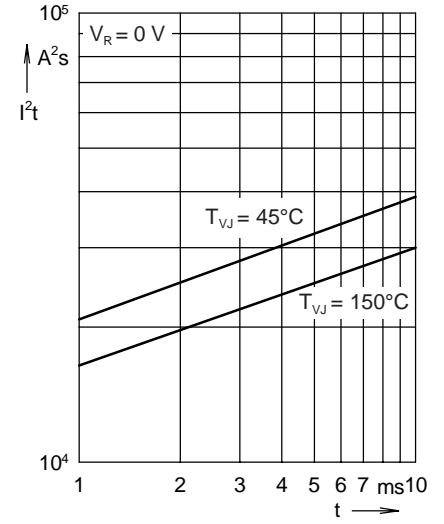


Fig. 6 I^2t versus time per diode

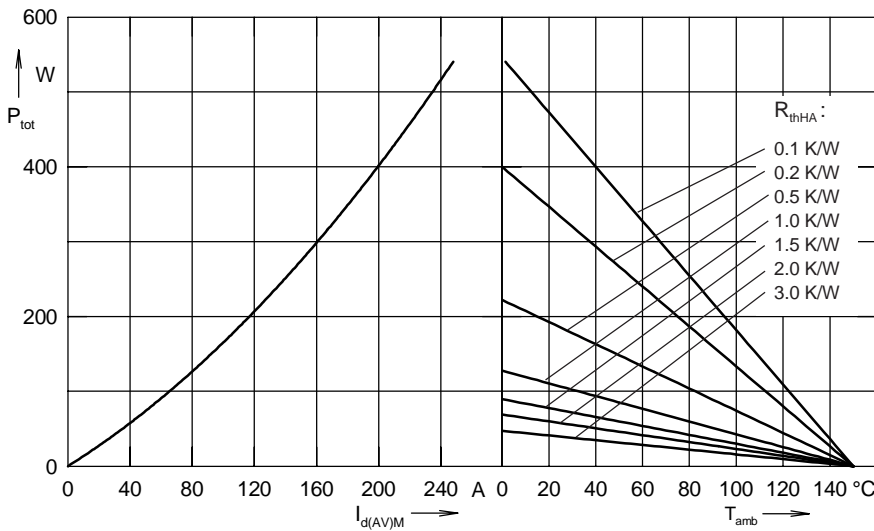


Fig. 7 Power dissipation versus direct output current and ambient temperature

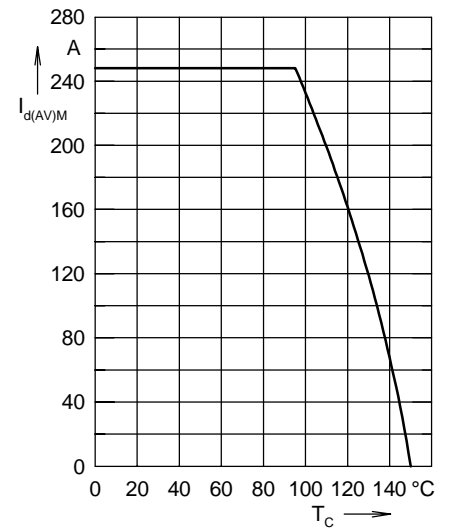


Fig. 8 Max. forward current versus case temperature

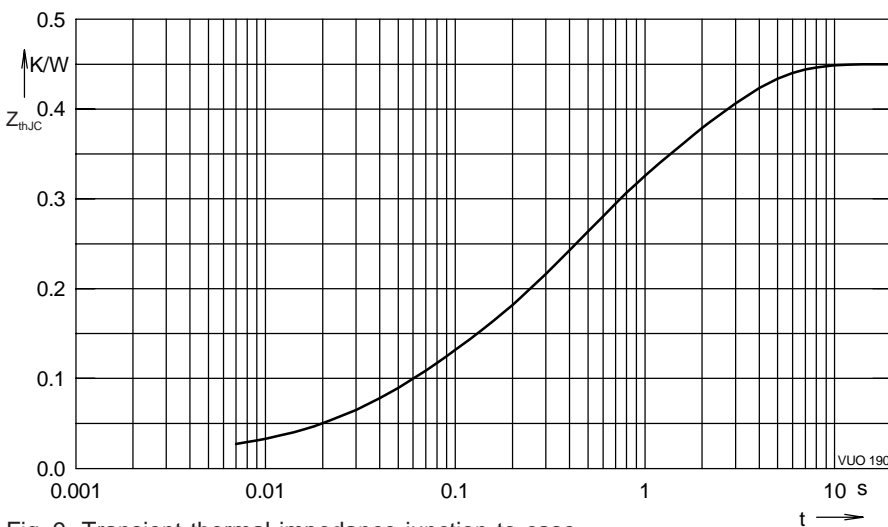


Fig. 9 Transient thermal impedance junction to case

Constants for Z_{thJC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.013	0.0012
2	0.072	0.047
3	0.175	0.326
4	0.19	2.03