

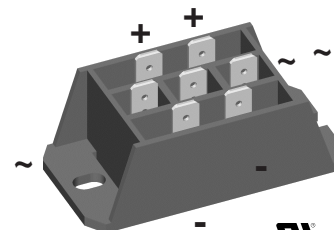
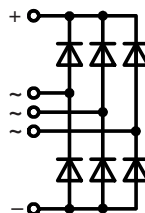
Three Phase Rectifier Bridge

$$I_{dAV} = 37 \text{ A}$$

$$V_{RRM} = 800-1800 \text{ V}$$

V_{RSM} V	V_{RRM} V	Type
900	800	VUO 30-08NO3
1300	1200	VUO 30-12NO3
1500	1400	VUO 30-14NO3
1700	1600	VUO 30-16NO3
1900	1800	VUO 30-18NO3*

* delivery time on request



UL E72873

Symbol	Conditions	Maximum Ratings
I_{dAV} ①	$T_C = 85^\circ\text{C}$, module	37 A
I_{dAVM} ①	module	50 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 300 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine 330 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 270 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine 290 A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 450 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine 460 A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine 365 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine 355 A ² s
T_{VJ}		-40...+125 °C
T_{VJM}		125 °C
T_{stg}		-40...+125 °C
V_{ISOL}	50/60 Hz, RMS	$t = 1 \text{ min}$ 3000 V~
	$I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ s}$ 3600 V~
M_d	Mounting torque (M5) (10-32 UNF)	2-2.5 Nm 18-22 lb.in.
Weight	typ.	50 g

Features

- Package with DCB ceramic base plate
- Isolation voltage 3600 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- low forward voltage drop
- 1/4" fast-on terminals
- UL registered E 72873

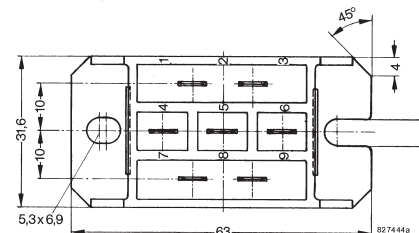
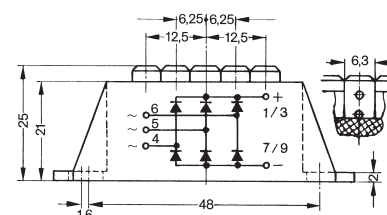
Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Rectifier for DC motors field current

Advantages

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

Dimensions in mm (1 mm = 0.0394")



Use output terminals in parallel connection!

Data according to IEC 60747 and refer to a single diode unless otherwise stated.
① for resistive load at bridge output

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

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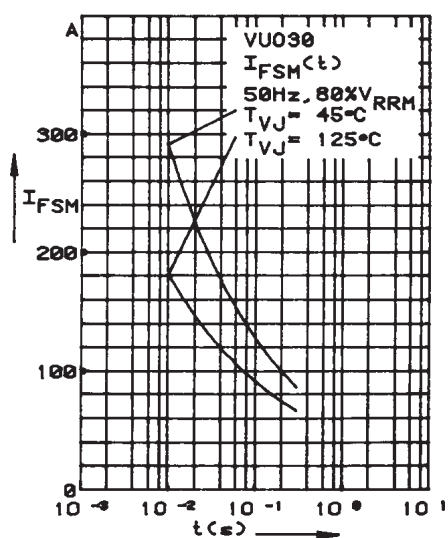


Fig. 1 Surge overload current
 I_{FSM} : Crest value, t : duration

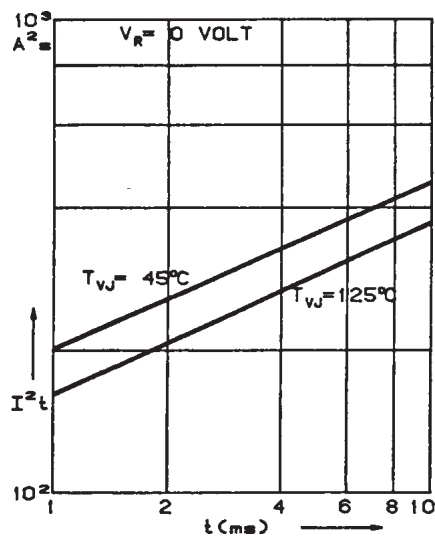


Fig. 2 I^2t versus time (1-10 ms)

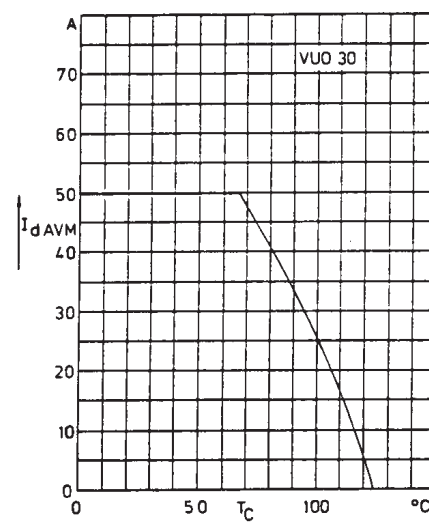


Fig. 3 Max. forward current
at case temperature

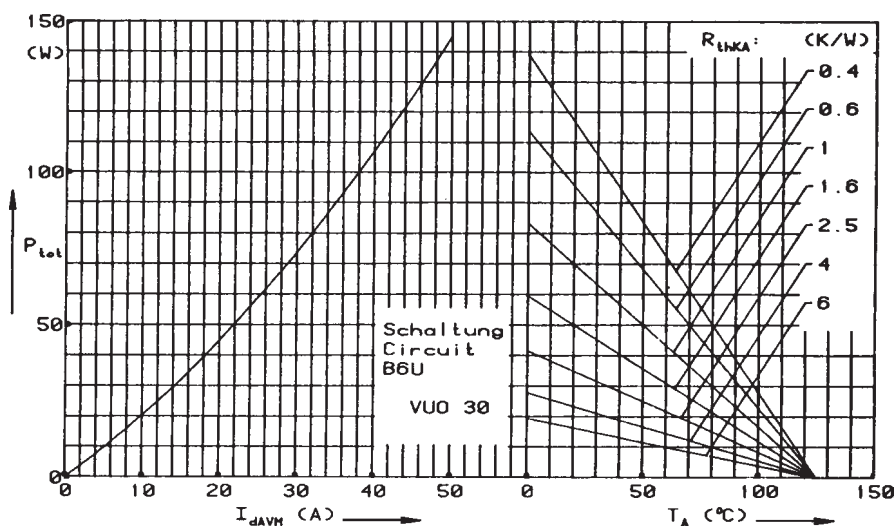


Fig. 4 Power dissipation versus forward current and ambient temperature

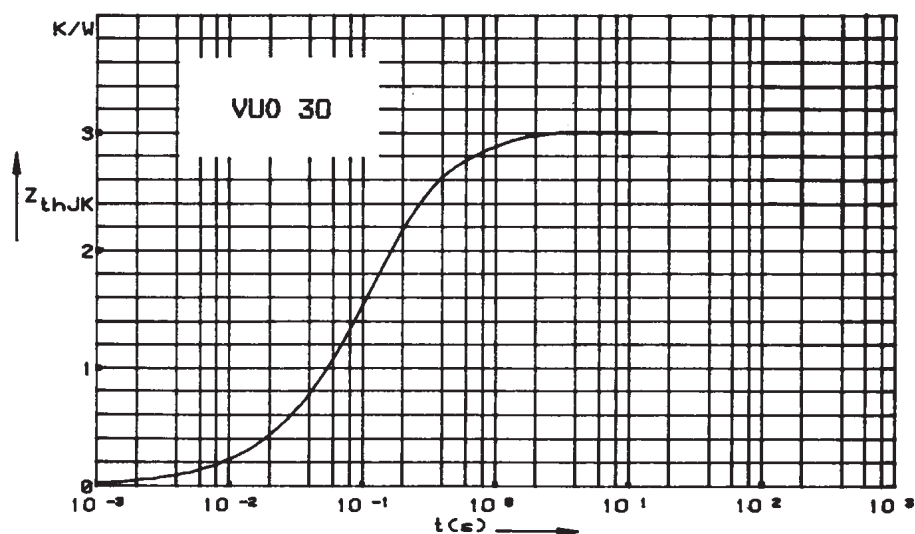


Fig. 5 Transient thermal impedance junction to heatsink per diode

Constants for Z_{thJK} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.489	0.0717
2	0.544	0.1241
3	1.376	0.1214

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