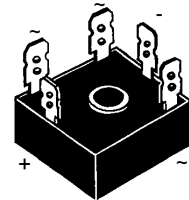
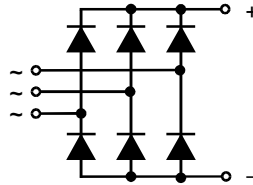


Three Phase Rectifier Bridge

$I_{dAVM} = 25 \text{ A}$
 $V_{RRM} = 1200-1800 \text{ V}$

V_{RSM} V	V_{RRM} V	Type
600	600	VUO 25-06NO8
1200	1200	VUO 25-12NO8
1400	1400	VUO 25-14NO8
1600	1600	VUO 25-16NO8
1800	1800	VUO 25-18NO8



Symbol	Test Conditions	Maximum Ratings
I_{dAV} I_{dAVM}	$T_C = 85^\circ\text{C}$, module	20 A
	$T_C = 63^\circ\text{C}$, module	25 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	t = 10 ms (50 Hz), sine 380 A t = 8.3 ms (60 Hz), sine 400 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine 360 A t = 8.3 ms (60 Hz), sine 400 A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine 725 A ² s t = 8.3 ms (60 Hz), sine 750 A ² s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine 650 A ² s t = 8.3 ms (60 Hz), sine 650 A ² s
T_{VJ} T_{VJM} T_{stg}		-40...+150 °C 150 °C -40...+150 °C
V_{ISOL}	50/60 Hz, RMS	t = 1 min 2500 V~ t = 1 s 3000 V~
	$I_{ISOL} \leq 1 \text{ mA}$	
M_d	Mounting torque (M5) (10-32 UNF)	$2 \pm 10 \%$ Nm $18 \pm 10 \%$ lb.in.
Weight	typ.	22 g

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

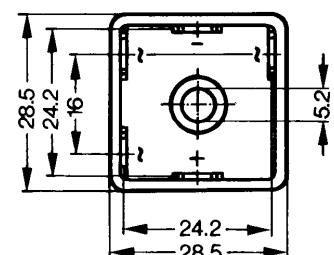
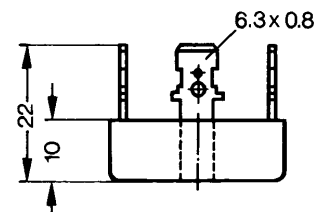
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with one screw
- Space and weight savings
- Improved temperature and power cycling

Symbol	Test Conditions	Characteristic Values
I_R	$T_{VJ} = 25^\circ\text{C}$; $T_{VJ} = T_{VJM}$	$V_R = V_{RRM} \leq 0.3 \text{ mA}$ $V_R = V_{RRM} \leq 5.0 \text{ mA}$
	$I_F = 150 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	$\leq 2.2 \text{ V}$
V_{T0}	For power-loss calculations only	0.85 V
r_T		12 mΩ
R_{thJC}	per diode; DC current	9.3 K/W
	per module	1.55 K/W
R_{thJH}	per diode; DC current	10.2 K/W
	per module	1.7 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

Dimensions in mm (1 mm = 0.0394")



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

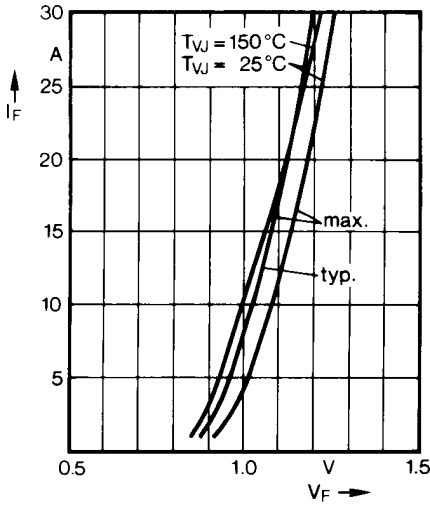


Fig. 1 Forward current versus voltage drop per diode

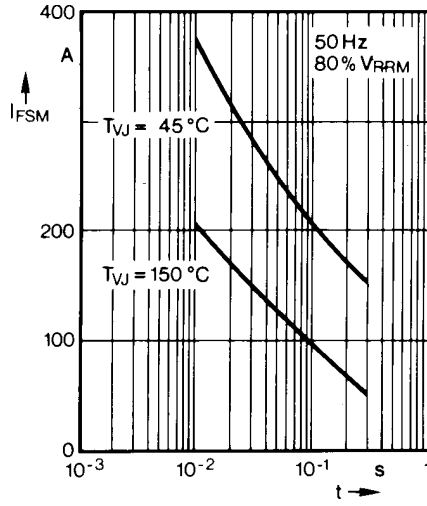


Fig. 2 Surge overload current per diode
I_{FSM}: Crest value. t: duration

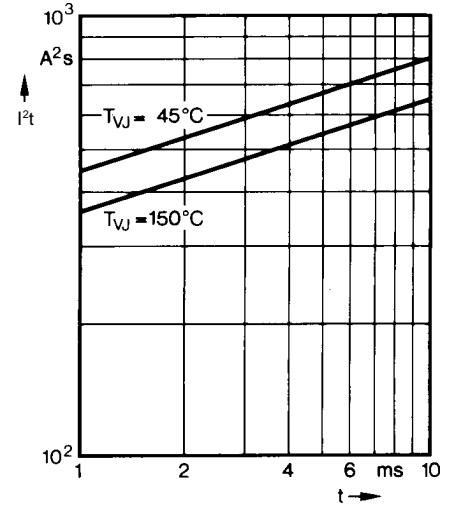


Fig. 3 I²t versus time (1-10 ms) per diode

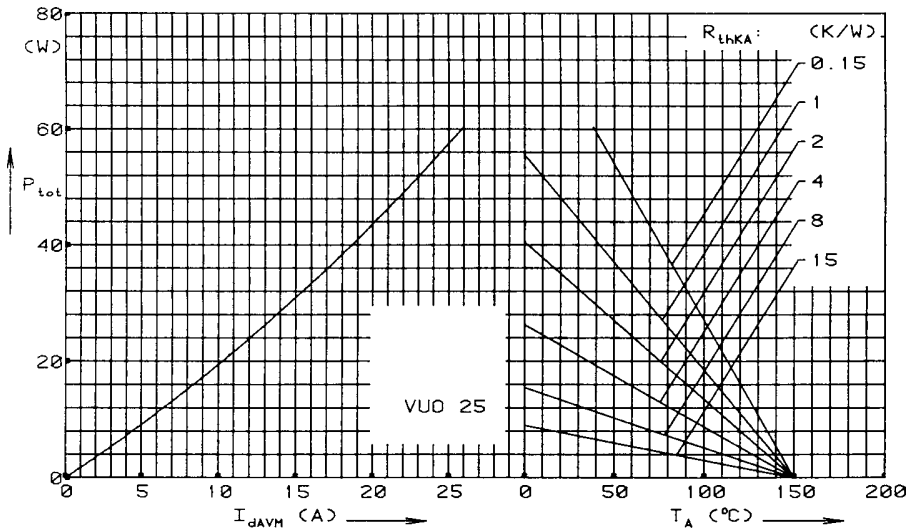


Fig. 4 Power dissipation versus direct output current and ambient temperature

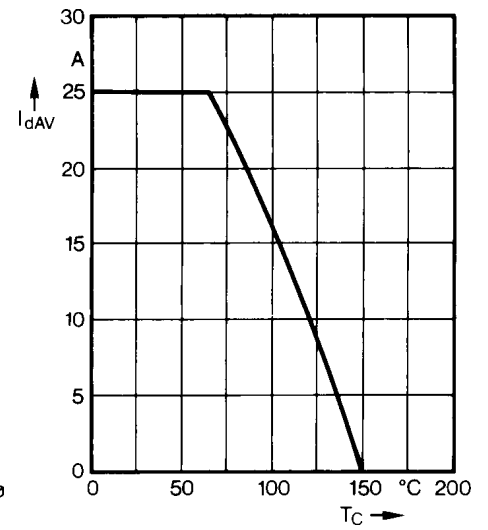


Fig. 5 Maximum forward current at case temperature

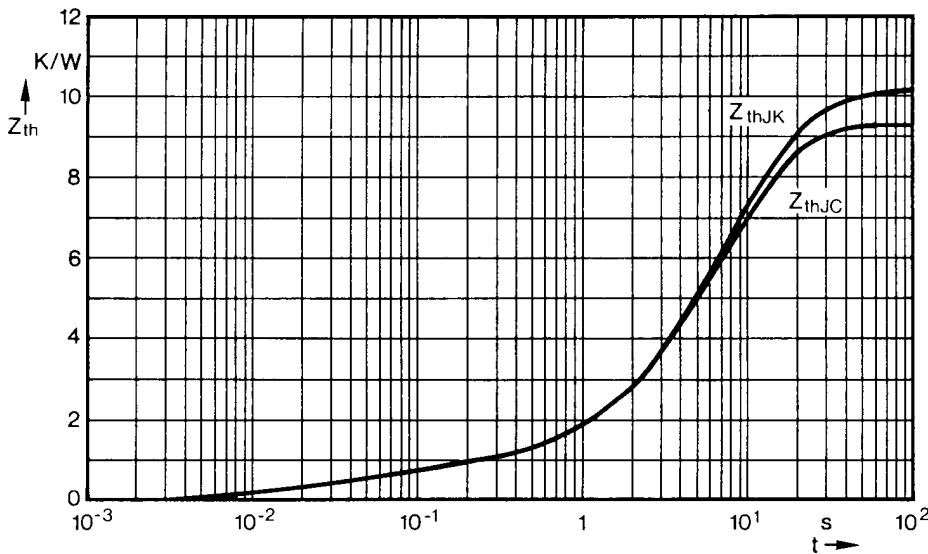


Fig. 6 Transient thermal impedance per diode

Constants for Z_{thJC} calculation:

i	R _{thi} (K/W)	t _i (s)
1	0.194	0.024
2	0.556	0.07
3	2.25	5.8
4	6.3	8.5

Constants for Z_{thJK} calculation:

i	R _{thi} (K/W)	t _i (s)
1	0.194	0.024
2	0.556	0.07
3	2.25	5.8
4	6.3	8.5
5	0.9	28.0

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.