Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

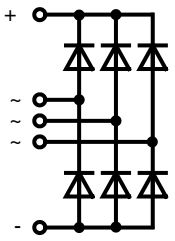
Contact us

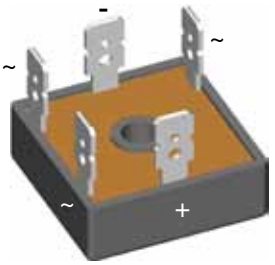
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Three Phase Rectifier Bridge

I_{dAV} = 25 A
V_{RRM} = 800-1800 V

V_{RSM} V_{DSM} V	V_{RRM} V_{DRM} V	Type
900	800	VUO 25-08NO8
1300	1200	VUO 25-12NO8
1500	1400	VUO 25-14NO8
1700	1600	VUO 25-16NO8
1900	1800	VUO 25-18NO8





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

Symbol	Conditions		Characteristic Values	
I_R	$V_R = V_{RRM}$	T_{VJ} = 25°C	0.3	mA
		$T_{VJ} = T_{VJM}$	5.0	mA
V_F	I_F = 150 A	T_{VJ} = 25°C	2.2	V
V_{T0}	For power-loss calculations only		0.85	V
r_t			12	mΩ
R_{thJC}	per diode; 120° el.		9.30	K/W
	per module		1.55	K/W
R_{thJH}	per diode; 120° el.		10.20	K/W
	per module		1.70	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

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

Features

- Package with ¼" fast-on terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

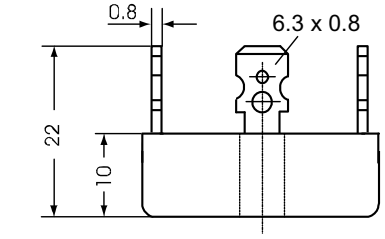
Applications

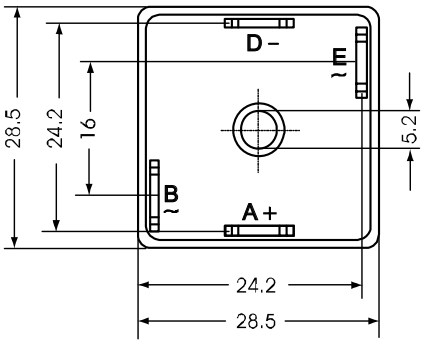
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

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

Dimensions in mm (1 mm = 0.0394")





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

20100303a

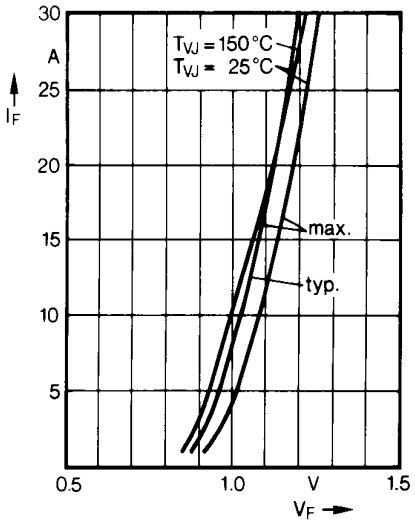


Fig. 1 Forward current versus voltage drop per diode

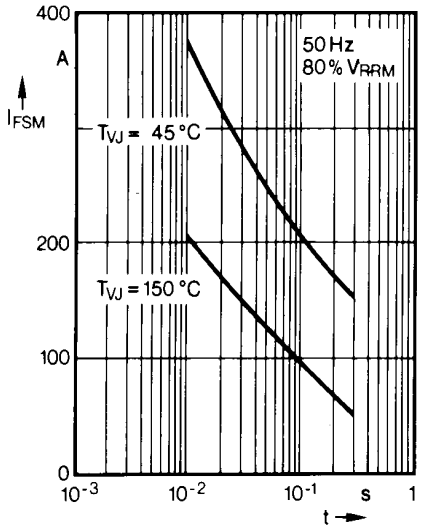


Fig. 2 Surge overload current per diode
I_{FSM}: Crest value. t: duration

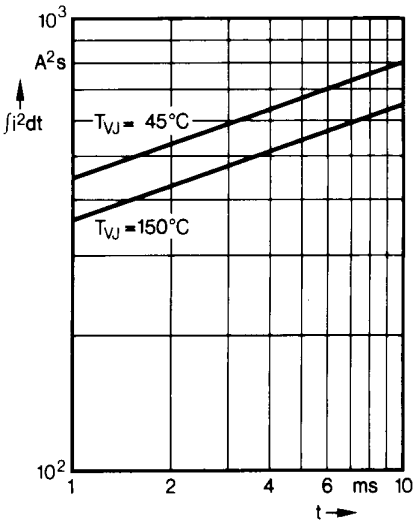


Fig. 3 I^2t versus time (1-10 ms) per diode

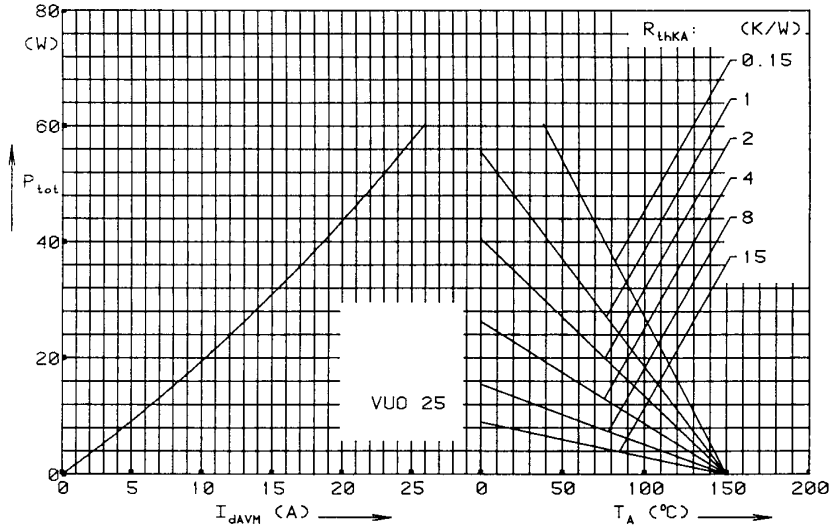


Fig. 4 Power dissipation versus direct output current and ambient temperature

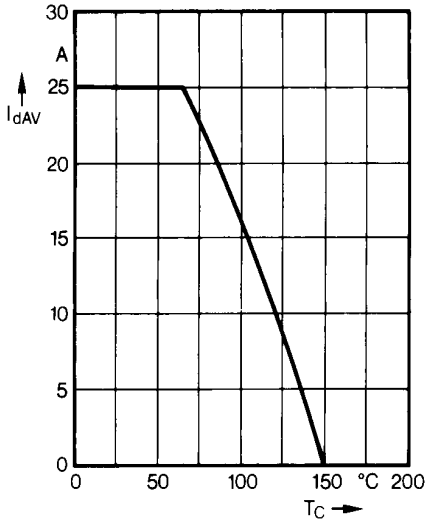


Fig. 5 Maximum forward current at case temperature

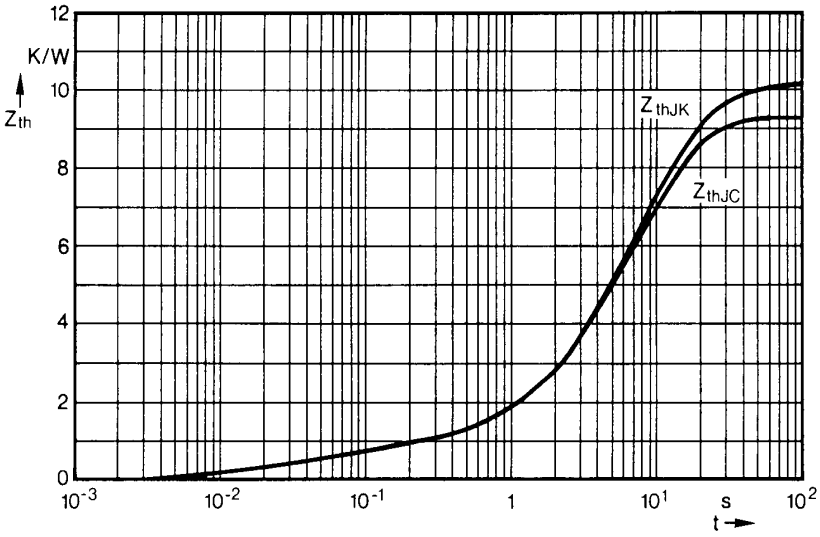


Fig. 6 Transient thermal impedance per diode

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