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.

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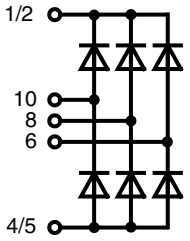
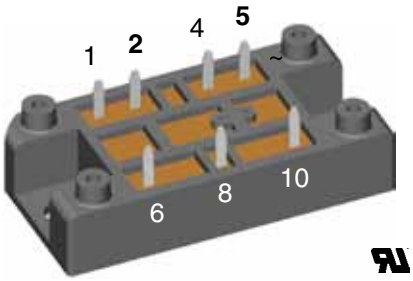
Three Phase Rectifier Bridge

I_{dAV} = 20 A
V_{RRM} = 800-1800 V

$V_{RSM/DSM}$ V	$V_{RRM/DRM}$ V	Type
900	800	VUO 16-08NO1
1300	1200	VUO 16-12NO1
1500	1400	VUO 16-14NO1
1700	1600	VUO 16-16NO1
1900	1800	VUO 16-18NO1





Symbol	Conditions			Maximum Ratings	
I_{dAV}	T_C = 90°C, module			15	A
I_{dAV}	T_A = 45°C (R_{thKA} = 0.5 K/W), module			20	A
I_{dAVM}	module			20	A
I_{FSM}	T_{VJ} = 45°C;	t = 10 ms	(50 Hz)	100	A
	V_R = 0	t = 8.3 ms	(60 Hz)	106	A
	T_{VJ} = T_{VJM};	t = 10 ms	(50 Hz)	85	A
	V_R = 0	t = 8.3 ms	(60 Hz)	90	A
I^2t	T_{VJ} = 45°C;	t = 10 ms	(50 Hz)	50	A^2s
	V_R = 0	t = 8.3 ms	(60 Hz)	47	A^2s
	T_{VJ} = T_{VJM};	t = 10 ms	(50 Hz)	36	A^2s
	V_R = 0	t = 8.3 ms	(60 Hz)	33	A^2s
T_{VJ}				-40...+130	°C
T_{VJM}				130	°C
T_{stg}				-40...+125	°C
V_{ISOL}	50/60 Hz, RMS	t = 1 min		3000	V~
	$I_{ISOL} \leq$ 1 mA	t = 1 s		3600	V~
M_d	Mounting torque	(M5)		2 - 2.5	Nm
		(10-32 UNF)		18 - 22	lb.in.
Weight	Typ.			35	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 = 7 A	T_{VJ} = 25°C	1.15	V
V_{T0}	For power-loss calculations only		0.8	V
r_t			50	mΩ
R_{thJH}	per diode,	120° rect.	4.5	K/W
	per module,	120° rect.	0.75	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 DCB ceramic base plate
- Isolation voltage 3600 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 72873

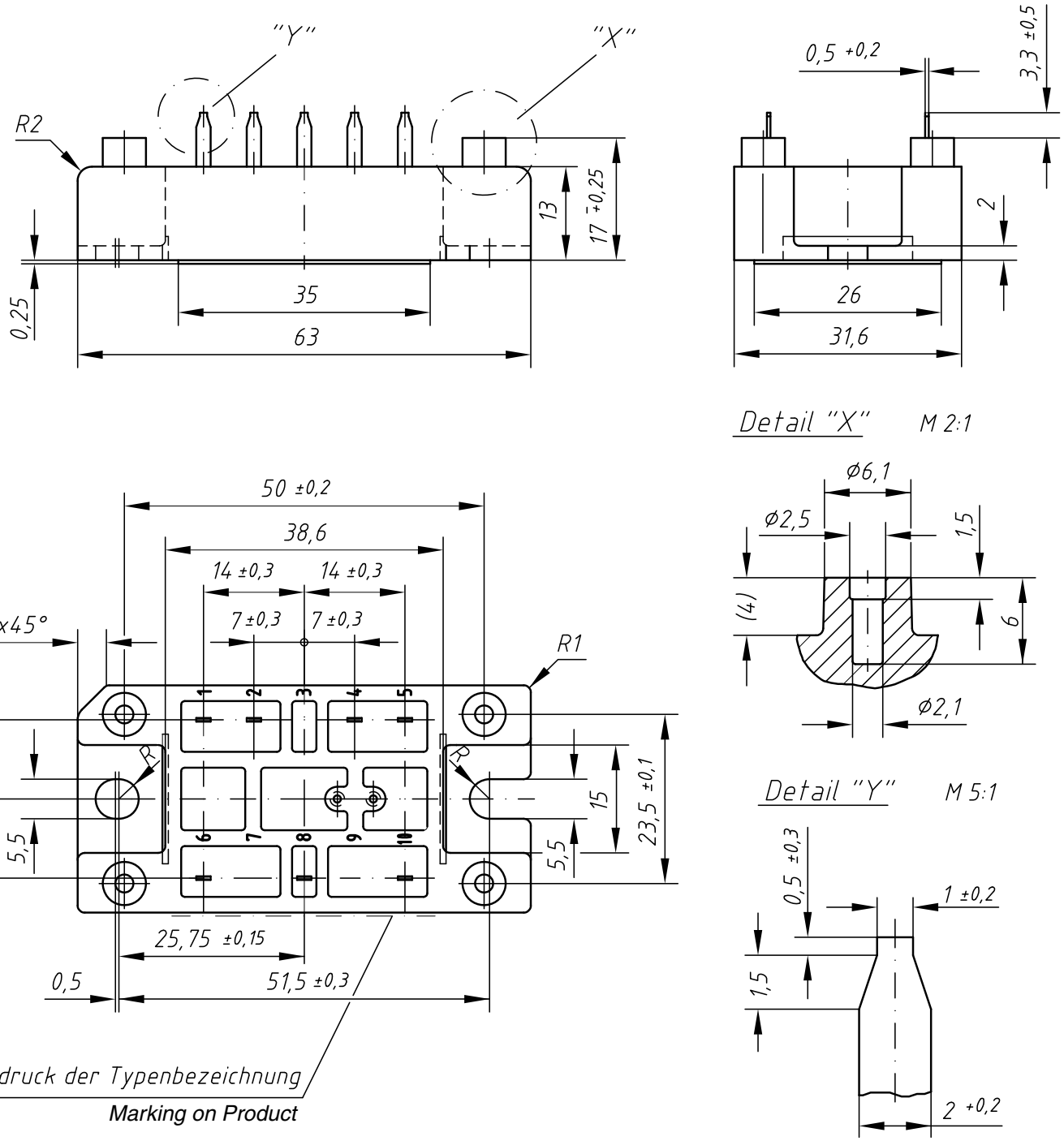
Applications

- 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“)



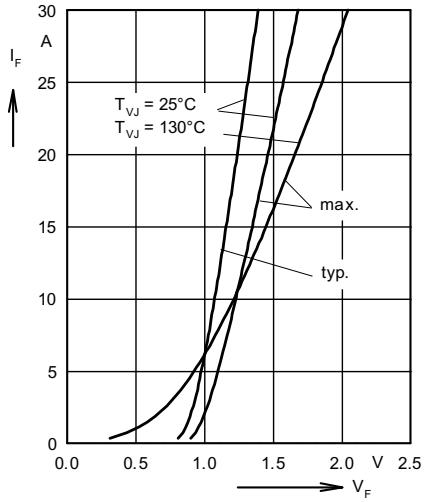


Fig. 1 Forward current versus voltage drop per diode

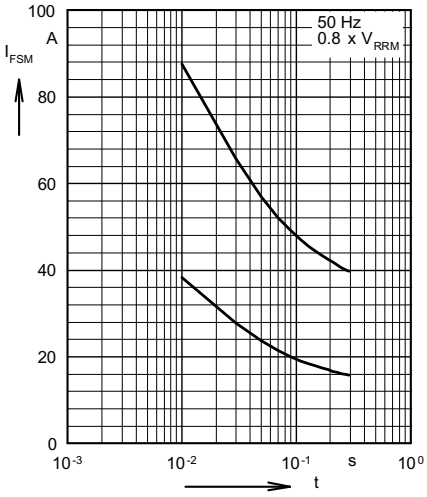


Fig. 2 Surge overload current per diode
I_{FSM}: Crest value. t: duration

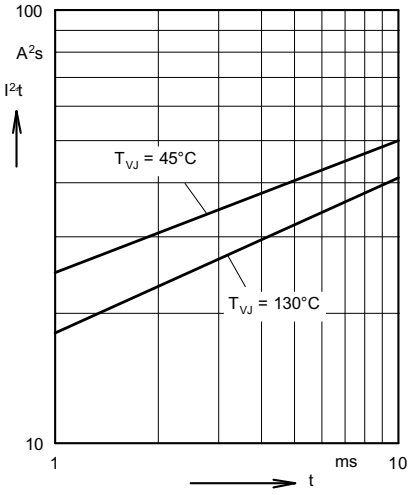


Fig. 3 I^2t versus time (1-10 ms) per diode

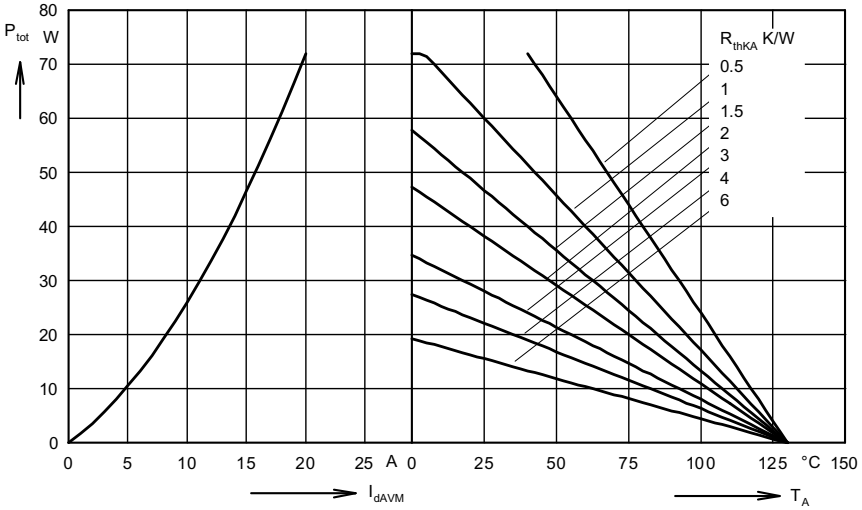


Fig. 4 Power dissipation versus direct output current and ambient temperature

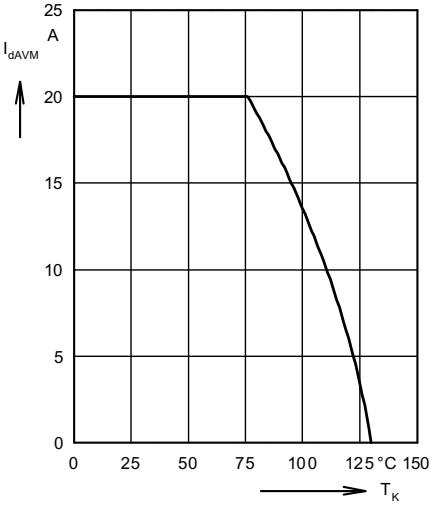


Fig. 5 Maximum forward current at case temperature

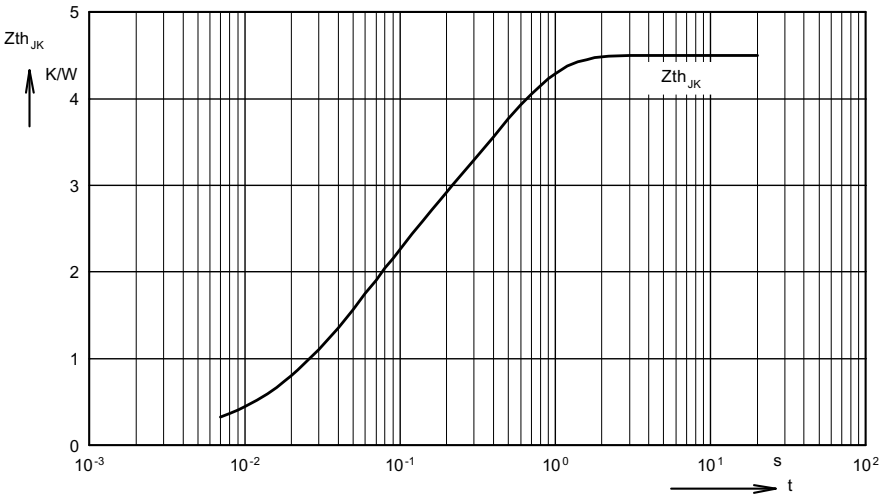


Fig. 6 Transient thermal impedance per diode

Constants for Z_{thJC} calculation:

i	R_{thi} (K/W)	t_i (s)
1	0.005	0.008
2	0.1	0.02
3	1.835	0.05
4	2.55	0.4