

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





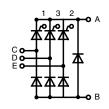


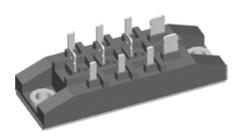


Three Phase Rectifier Bridge

70 A $V_{RRM} = 1600 V$

V _{RSM}	V _{RRM} V _{DRM}	Туре
V	V	
1700	1600	VVZF 70-16io7





Symbol	Conditions	Maximum Ratings		
I _{dAV} ① I _{dAVM} ① I _{FRMS} , I _{TRMS}	T _C = 85°C, module module per leg		70 70 36	A A A
I _{FSM} , I _{TSM}	$T_{VJ} = 45$ °C; $t = 10 \text{ m}$ $V_R = 0$ $t = 8.3 \text{ m}$, ,	550 600	A A
	$T_{VJ} = T_{VJM};$ $t = 10 \text{ m}$ $V_R = 0$ $t = 8.3 \text{ m}$,	500 550	A A
l²t	$T_{VJ} = 45$ °C; $t = 10 \text{ m}$ $V_R = 0$ $t = 8.3 \text{ m}$, ,	1520 1520	A ² s A ² s
	$T_{VJ} = T_{VJM};$ $t = 10 \text{ m}$ $V_R = 0$ $t = 8.3 \text{ n}$	'	1250 1250	A ² s A ² s
(di/dt) _{cr}	T _{vJ} = 125°C f = 50 Hz; tp = 200 μs	repetitive; $I_T = 50 \text{ A}$	150	A/µs
	$V_D = {}^2\!/_{\!_3} V_{DRM}$ $I_G = 0.3 A$ $di_G/dt = 0.3 A/\mu s$	non repetitive; $I_T = \frac{1}{2}I_{dAV}$	500	A/µs
(dv/dt) _{cr}	$T_{VJ} = T_{VJM}$; $V_D = {}^2/_3 V_{DRM}$ $R_{GK} = \infty$, method 1 (linear voltage rise)		1000	V/µs
V _{RGM}			10	V
P _{GM}	$I_T = I_{TAVM}$ $t_p = 5$	30 μs 500 μs 10 μs	10 5 1	W W W
P _{GAVM}	·		0.5	W
T _{VJ} T _{VJM} T _{stg}			-40+125 125 -40+125	°C ℃ ℃
V _{ISOL}	50/60 Hz, RMS $t = 1$ $I_{ISOL} \le 1 \text{ mA}$ $t = 1$		2500 3000	V~ V~
M _d	Mounting torque (M5) (10-3	32 UNF)	5 ±15% 44 ±15%	Nm lb.in.

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

Features

- Package with copper base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- 1/4" fast-on power terminals

Applications

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

Advantages

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- Easy to mount with two screw
- Space and weight savings
- Improved temperature & power cycling capability
- Small and light weight

Тур.

Weight



Symbol	Conditions	Characteristic Values			
I _D ; I _R	$V_R = V_{RRM}; V_D = V_{DRM}$	$T_{VJ} = T_{VJM}$	≤	5	mA
V _T	$I_{T} = 80 \text{ A}$	$T_{VJ} = 25^{\circ}C$	≤	1.64	V
\mathbf{V}_{TO} \mathbf{r}_{t}	For power-loss calculations only			0.85 11	V mΩ
V _{GT}	$V_D = 6 V$	$T_{VJ} = 25^{\circ}C$ $T_{VJ} = -40^{\circ}C$	≤ ≤	1.5 1.6	V V
I _{GT}	$V_D = 6 V$	$T_{VJ} = 25^{\circ}C$ $T_{VJ} = -40^{\circ}C$	<u>≤</u> <u>≤</u>	100 200	mA mA
V _{GD} I _{GD}	$V_D = {}^2/_3V_{DRM}$	$T_{\text{VJ}} = T_{\text{VJM}}$	<u> </u>	0.2 5	V mA
I _L	$t_p = 10 \mu s$ $I_G = 0.45 \text{ A}; di_G/dt = 0.45 \text{ A}/\mu$	$T_{VJ} = 25^{\circ}C$	<u>≤</u>	450	mA
I _H	$V_D = 6 \text{ V}; R_{GK} = \infty$	$T_{VJ} = 25^{\circ}C$	≤	200	mA
t _{gd}	$V_D = \frac{1}{2}V_{DRM}$ $I_G = 0.45 \text{ A}; di_G/dt = 0.45 \text{ A}/\mu$	$T_{VJ} = 25^{\circ}C$	≤	2	μs
t _q	$I_T = 20 \text{ A}; t_p = 200 \mu\text{s}$ $V_R = 100 \text{ V}; di/\text{d}t = -10 \text{ A}/\mu\text{s}$ $dv/\text{d}t = -15 \text{ V}/\mu\text{s}; V_D = ^2/_3 \text{ V}_{DRM}$	T _{VJ} = 25°C	<u> </u>	250	μs
R _{thJC}	per thyristor / diode; DC per module			0.9 0.15	K/W K/W
R_{thJH}	per thyristor / diode; DC per module			1.1 0.157	K/W K/W
d _s d _A a	Creeping distance on surfactor Creepage distance in air Max. allowable acceleration	е		16.1 7.5 50	mm mm m/s²

Dimensions in mm (1 mm = 0.0394")

