

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!



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SLA7029M/SMA7022MU/SMA7029M

2-Phase Excitation

■Absolute Maximum Ratings

(Ta=25°C)

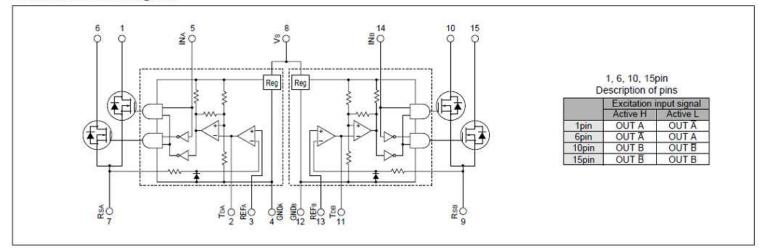
Parameter		Rat				
	Symbol	SLA7029M	SMA7022MU	SMA7029M	Unit	
Motor Supply Voltage	Vcc	46				
FET Drain-Source Voltage	Voss	100				
Control Supply Voltage	Vs	46				
TTL Input Voltage	VIN	7				
Reference Voltage	V _{REF}	2				
Output Current	lo	1.5	1 1.5		Α	
Power Dissipation	Pot	4.5 (Without Heatsink) 4.0 (Without Heatsink)		ıt Heatsink)	W	
	P ₀₂	35 (To=25°C) 28 (To=25°C)			W	
Channel Temperature	Tan	+150				
Storage Temperature	Tstg	-40 to +150				

■Electrical Characteristics

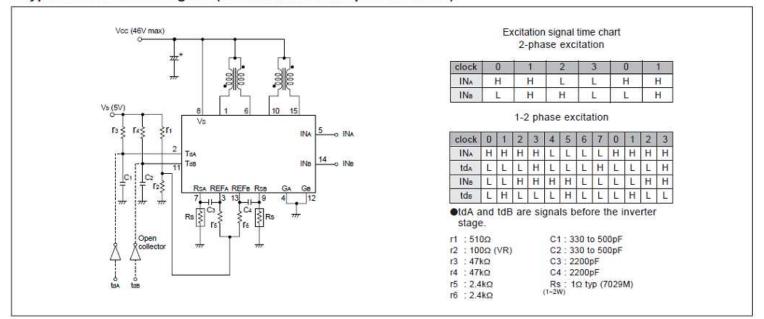
(Ta=25°C)

			Ratings									
Parameter	Symbol	SLA7029M			SMA7022MU			SMA7029M			Unit	
		min.	typ.	max.	min.	typ.	max.	min.	typ.	max.		
Control Supply Current	la la		10	15		10	15		10	15	mA	
	Condition		Vs=44V	100	Vs=44V			Vs=44V			mA	
Control Supply Voltage	Va	10	24	44	10	24	44	10	24	44	V	
FET Drain-Source Voltage	Voes	100			100			100			V	
	Condition	Va=4	44V, loss=2	250μΑ	Vo=44V, Inco=250μA			Ve=44V, Ioes=250μA			٧	
FET ON Voltage	Vos			0.6			0.85			0.6	2.42	
	Condition	lo	=1A, V ₅ =1	4V	Io=1A, Vo=14V Io=1A, Vo=14V			14V	V			
FET Drain Leakage Current	loos			4			4			4	274	
	Condition	Voos	=100V, Vo	=44V	Voor	Vocc=100V, Vs=44V Vocc=100V, Vs=44V				=44V	mA	
FET Diode Forward Voltage	Vso			1.1	i i		1.2			1,1	542	
	Condition	1.0	lo=1A			In=1A		lo=1A			٧	
FET Diode Forward Voltage TTL Input Current	I _{BH}			40		40			40			
	Condition	VH	=2.4V, Vs=	:44V	VH=2.4V, Vs=44V			Vs=2.4V, Vs=44V			μΑ	
	la.			-0.8			-0.8			-0.8	mA	
	Condition	V _{IL} =0.4V, V ₀ =44V		V _{IL} =0.4V, V ₀ =44V			V _{IL} =0.4V, V₀=44V			IIIA		
TTL Input Voltage (Active High)	VIH	2			2			2				
	Condition	l₀=1A			lo=1A			lo=1A			v	
	V _{IL}			0.8			0.8			0.8	V	
	Condition		Vpss=100	V	Vpss=100V			Voss=100V				
TTL Input Voltage (Active Low)	VIH	2	147		2			2		4		
	Condition	Vpss=100V			Vpss=100V			Voss=100V			v	
	V _L			0.8			8.0			0.8		
	Condition	l₀=1A			lo=1A			lo=1A				
Switching Time	Tr		0.5		0.5		j		0.5			
	Condition	Vs=24V, Io=1A		Vs=24V, In=0.8A		Vs=24V, Io=1A						
	Tsto		0.7			0.7	0.7		0.7			
	Condition	V	e=24V, lo=	1A	Va=24V, In=0.8A		Vs=24V, Io=1A			μs		
	Tr		0.1			0.1			0.1	0		
	Condition	٧	s=24V, lp=	1A	Vs=24V, Is=0.8A			Ve=24V, Io=1A				

■Internal Block Diagram



■Typical Connection Diagram (Recommended component values)



■External Dimensions (ZIP15 with Fin [SLA15Pin] /ZIP15[SMA15Pin])

(Unit:mm)

