SLA7029M/SMA7022MU/SMA7029M

2-Phase Excitation

■Absolute Maximum Ratings

(Ta=25°C)

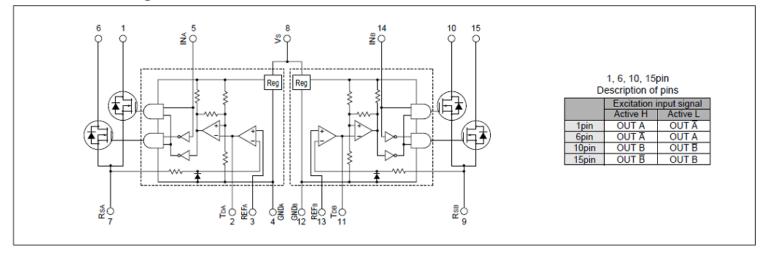
Parameter	O. mahad	Rat				
	Symbol	SLA7029M	SMA7022MU	SMA7029M	Unit	
Motor Supply Voltage	Vcc	4	٧			
FET Drain-Source Voltage	Voss	10	V			
Control Supply Voltage	Vs	4	V			
TTL Input Voltage	VIN	1	٧			
Reference Voltage	V _{REF}	2	V			
Output Current	lo	1.5	1	1.5	Α	
Power Dissipation	Pot	4.5 (Without Heatsink) 4.0 (Without Heatsink)		W		
	P _{D2}	35 (Tc=25°C) 28 (Tc=25°C)		W		
Channel Temperature	Tan	+1	°C			
Storage Temperature	Tsto	-40 to +150				

■Electrical Characteristics

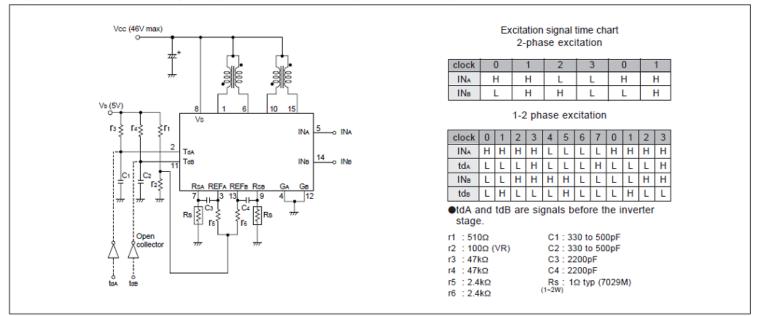
(Ta=25°C)

		Ratings										
Parameter	Symbol	SLA7029M		SMA7022MU		SMA7029M			Unit			
		min.	typ.	max.	min.	typ.	max.	min.	typ.	max.		
Control Supply Current	ls		10	15		10	15		10	15	mA	
	Condition		Vs=44V		Vs=44V			Va=44V			mA	
Control Supply Voltage	Vs	10	24	44	10	24	44	10	24	44	V	
FET Drain-Source Voltage	Voss	100			100			100			V	
	Condition	Vs=4	44V, loss=2	50μA	Vs=44V, Ipss=250μA			Vs=44V, Ipss=250μA			٧	
FET ON Voltage	Vos			0.6			0.85			0.6		
	Condition	lo	=1A, V ₀ =1	4V	Io=1A, Vo=14V			lo	lo=1A, Vo=14V		V	
FET Drain Leakage Current FET Diode Forward Voltage TTL Input Current	loss			4			4			4		
	Condition	Voos	=100V, Vo	=44V	Voo	=100V, Va	=44V	Vpss=100V, Vs=44V			mA	
FET Diode Forward Voltage	Vso			1.1			1.2			1.1		
	Condition		l₀=1A			l₀=1A	•	Io=1A			V	
TTL Input Current	lн			40		40			40			
	Condition	ViH	=2.4V, Vo=44V Vn=2.4V, Vo=44V		V⊮=2.4V, V≈=44V			μΑ				
	lı.			-0.8			-0.8			-0.8		
	Condition	V _{IL} =0.4V, V ₃ =44V		V _{IL} =0.4V, V ₃ =44V		V _{IL} =0.4V, V _S =44V		44V	mA			
TTL Input Voltage (Active High)	VIH	2			2			2				
	Condition	I _D =1A		l _D =1A		lo=1A						
	VIL			0.8			0.8			8.0	V	
	Condition		Vpss=100\	,		Vpss=100\	/	Voss=100V				
TTL Input Voltage (Active Low)	VIH	2			2			2				
	Condition		Vpss=100\	Vpss=100V Vpss=100V Vpss=100V		V						
	VIL			0.8			0.8			0.8	V	
	Condition		lo=1A		I₀=1A			lo=1A				
Switching Time	Tr		0.5			0.5			0.5			
	Condition	Vs=24V, In=1A		Vs=24V, Ip=0.8A		Vs=24V, Io=1A						
	Tsto		0.7			0.7			0.7			
	Condition	٧	s=24V, lo=	1A	Vs=24V, Is=0.8A		Vs=24V, Io=1A		1A	μs		
	Tr		0.1			0.1			0.1	\Box		
	Condition	V	s=24V, lo=	1A	V	=24V, lo=0	.8A	V	a=24V, In=	1A		

■Internal Block Diagram

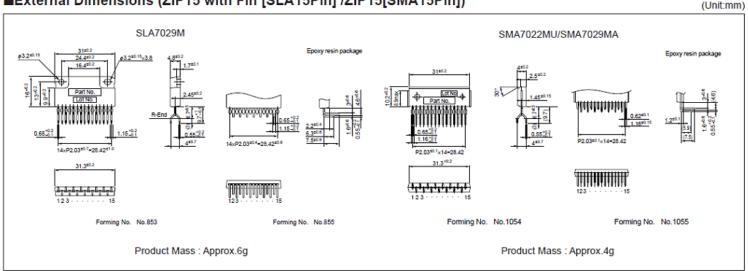


■Typical Connection Diagram (Recommended component values)



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

(Unit:mm)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Motor/Motion/Ignition Controllers & Drivers category:

Click to view products by Sanken manufacturer:

Other Similar products are found below:

LV8133JA-ZH LV8169MUTBG LV8774Q-AH LV8860PV-TLM-H MC33931EKR2 MC34GD3000EP FSB50250UTD FSB50550TB2

FSBF15CH60BTH FSBS10CH60T MP6507GR-P MP6508GF MSVCPM2-63-12 MSVGW45-14-2 MSVGW54-14-5 NTE7043

CAT3211MUTAG LA6245P-CL-TLM-E LA6245P-TLM-E LA6565VR-TLM-E LB11650-E LB1694N-E LB1837M-TLM-E LB1845DAZ
XE LC898111AXB-MH LC898300XA-MH SS30-TE-L-E STK531-345A-E STK581U3A0D-E STK58AUNP0D-E STK621-068C-E

STK621-140C STK621-728S-E STK625-728-E STK672-400B-E STK672-432AN-E STK672-432BN-E STK672-440AN-E STK672
442AN-E AMIS30621AUA FSB50550ASE 26700 LV8161MUTAG LV8281VR-TLM-H LV8702V-TLM-H LV8734VZ-TLM-H

LV8773Z-E LV8807QA-MH MC33932EK MCP8024T-H/MP