马达驱动 IC 选型表

一、HVIC 门极驱动系列选型表

Part Number	Function	Number of Outputs	Voffset Max | V	Io +/- | mA	Deadtime Typ. | ns	t on/off ns	Delay Matching ns	Package	Packing Qty.
SLM2101S	Half Bridge Driver	2	600	290/600	N/A	160/150	60	SOIC-8	Reel,2500
SLM2103S	Half Bridge Driver	2	600	290/600	520	680/150	60	SOIC-8	Reel,2500
SLM2104S	Half Bridge Driver	2	600	290/600	520	680/150	60	SOIC-8	Reel,2500
SLM2106S	Half Bridge Driver	2	600	290/600	N/A	160/150	30	SOIC-8	Reel,2500
SLM2106B	Half Bridge Driver	2	600	1400/1800	N/A	220/200	30	SOIC-8	Reel,2500
SLM2108S	Half Bridge Driver	2	600	290/600	540	220/200	30	SOIC-8	Reel,2500
SLM2110S	Half Bridge Driver	2	600	2500/2500	N/A	130/150	10	SOIC-16	Reel,1500
SLM2184S	Half Bridge Driver	2	600	1400/1800	400	680/270	60	SOIC-8	Reel,2500
SLM21844	Half Bridge Driver	2	600	1400/1800	ADJ.	680/270	60	SOIC-8	Reel,2500
SLM21867	Half Bridge Driver	2	600	4000/4000	N/A	170/170	10	SOIC-8	Reel,2500
SLM2186	Half Bridge Driver	2	600	4000/4000	N/A	130/120	10	SOIC-8	Reel,2500
SLM2304S	Half Bridge Driver	2	600	290/600	N/A	160/150	30	SOIC-8	Reel,2500
SLM2114	Half Bridge Driver	2	600	1000/1500	330	N.A	75	SSOP-24	Reel,2500
SLM2136	Three-Phase Driver	6	600	250/350	290	400/380	40	SOIC-28	Reel,1000
SLM21364	Three-Phase Driver	6	600	200/350	290	500/530	75	SOIC-28	Reel,1000
SLM23364	Three-Phase Driver	6	600	200/350	275	530/530	60	SOIC-28	Reel,1000

Part Number	Function	Number of Outputs	Voffset Max | V	Io +/- | mA	Deadtime Typ. | ns	t on/off ns	Delay Matching ns	Package	Packing Qty.
SLM2001S	Half Bridge Driver	2	200	290/600	N/A	160/150	60	SOIC-8	Reel,2500
SLM2003S	Half Bridge Driver	2	200	290/600	520	680/150	60	SOIC-8	Reel,2500
SLM2004S	Half Bridge Driver	2	200	290/600	520	680/150	60	SOIC-8	Reel,2500
SLM2005S	Half Bridge Driver	2	200	290/600	N/A	160/150	30	SOIC-8	Reel,2500
SLM27211A	Half Bridge Driver	2	120	4000/4000	N.A	20/20	4	SOIC-8	Reel,2500
SLM7888	Three-Phase Driver	6	160	350/650	270	130/150	40	SOIC-20 TSSOP-20	Reel,1000 Reel,4000

二、600V IGBT/MOSFET 驱动 IC 替换指南

	SLM2101S	SLM2103S	SLM2104S	SLM2106S	SLM2108S	SLM2304S	SLM2106B	SLM2184S	SLM2110S	SLM2136CF
Io+/- (mA)	290/600	290/600	290/600	290/600	290/600	290/600	1400/1800	1400/1800	2500/2500	250/400
Ton/off (ns)	160/150	680/150	680/150	220/200	220/200	160/150	220/200	680/270	130/120	400/380
Delay Matching(ns)	50	60	60	30	30	50	30	400	10	40
Tr/Tf (ns)	100/50	100/50	100/50	150/50	100/35	100/50	40/15	40/20	25/17	125/50
Logic H/L (V)	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.0/1.0
Iqb/qc (uA)	30/150	30/150	30/150	75/120	75/270	30/150	75/120	60/170	65/300	60/1600
UVLO (V)	8.9/8.2	8.9/8.2	8.9/8.2	8.9/8.2	8.9/8.2	8.9/8.2	8/7.2 7.2/6.6	8.9/8.2	8.9/8.2	8.9/8.2
Dead Time (ns)	---	520	520	---	540	---	---	520	---	290
SD	---	---	Yes(160ns)	---	---	---	---	yes	yes	---
P/N Reference	IRS2101	IRS2103	IRS2104	IRS2106	IRS2108	IRS2304	— (无互锁)	IRS2184	IR2110	IR2136
Package	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOIC-16	SOIC-28L
Pin-out										

三、200V IGBT/MOSFET 驱动 IC 替换指南

	SLM2001S	SLM2003S	SLM2004S	SLM2005S	SLM7888 (160V)
Io+/- (mA)	290/600	290/600	290/600	290/600	350/650
Ton/off (ns)	160/150	680/150	680/150	160/150	130/150
Delay Matching (ns)	50	60	60	50	---
Tr/Tf (ns)	70/35	70/35	70/35	70/35	50/30
Logic H/L (V)	2.5/0.8	2.5/0.8	2.5/0.8	2.5/0.8	2.5/1.0
Iqb/qc (uA)	30/150	30/150	30/150	75/120	65/160
UVLO (V)	8.9/8.2	8.9/8.2	8.9/8.2	8.9/8.2	6.7/6.2
Dead Time (ns)	---	520	520	---	270
SD	---	---	Yes(160ns)	---	---
P/N Reference	IRS2001	IRS2003	IRS2004	IRS2005	FAN7888
Package	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOIC-20L(WB) TSSOP-20L(NB)
Pin-out					