IR Half Bridge Driver IC Parameters (all: dv/dt=50V/ns C_L=1nF)

P/N	IR2010	IR2011	IRS2011	IRS20124	IR2110 *IR2113	IR2213	IR2181 *IR21814	IR2183 *IR21834	IR2184 *IR21844
VB Range	Com-0.3 Com+225	Com-0.3 Com+250	Com-0.3 Com+220	Com-0.3 Com+220	Com-0.3 Com+*(6)525	Com-0.3 Com+1225	Com-0.3 Com+625	Com-0.3 Com+625	Com-0.3 Com+625
VS Range	VB-25 VB+0.3	VB-25 VB+0.3	VB-20 VB+0.3	VB-20 VB+0.3	VB-25 VB+0.3	VB-25 VB+0.3	VB-25 VB+0.3	VB-25 VB+0.3	VB-25 VB+0.3
Vcc Range	Com-0.3 Com+25	Com-0.3 Com+25	Com-0.3 Com+20	Com-0.3 Com+20	Com-0.3 Com+25	Com-0.3 Com+25	Com-0.3 Com+25	Com-0.3 Com+25	Com-0.3 Com+25
Vdd Range	Com-0.3 Vss+25	-	-	-	Com-0.3 Vss+25	Com-0.3 Vss+25	-	-	-
Vss Range	Vcc-25 Vcc+0.3	-	-	-	Vcc-25 Vcc+0.3	Vcc-25 Vcc+0.3	* Vcc-25 Vcc+0.3	* Vcc-25 Vcc+0.3	* Vcc-25 Vcc+0.3
Inputs Range	Vss-0.3 Vdd+0.3	Com-0.3 Vcc+0.3	Com-0.3 Vcc+0.3	Com-0.3 Vcc+0.3	Vss-0.3 Vdd+0.3	Vss-0.3 Vdd+0.3	Com *Vss -0.3/+10	Com *Vss -0.3/+10	Com *Vss -0.3/+10
Td on	95ns	80ns	60ns	60ns	120ns	280ns	180ns	180ns	680ns * 180ns+Tdt
Td off	65ns	75ns	60ns	60ns	94ns	225ns	220ns	220ns	270ns
Tsd	70ns	-	-	140ns	110ns	230ns	-	-	180ns
Tr	10ns	35ns	25ns	25ns	25ns	25ns	40ns	40ns	40ns
Tf	15ns	20ns	15ns	15ns	17ns	17ns	20ns	20ns	20ns
Tdt	-	-	-	15/25/35/45ns Vcc·(.89/.57/.36/.23)	-	-	-	500ns * 400ns (0) to 5us (200k)	* 400ns (0) to 5us (200k)
Input Types	Hin Lin SD	Hin Lin	Hin Lin	In SD/DT	Hin Lin SD latching	Hin Lin SD latching	Hin Lin	Hin Lin\ * DT	In SD\ * DT
V_{IH}	Vdd·9.5 /15 Vdd·2/ 3.3	2.2	2.5	2.5	Vdd·9.5/15	Vdd·9.5/15	2.7	2.7	2.7
V_{IL}	Vdd·6.0/15 Vdd·1/ 3.3	0.7	1.2	1.2	Vdd·6.0/15	Vdd·6.0/15	0.8	0.8	0.8
$Vsat_H$	1.0	2.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
$Vsat_L$	0.1	0.2/20m	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Vos / Ios	200/50u	200/50u	200/50u	200/50u	*(6)500/50u	1200/50u	600/50u	600/50u	600/50u
VB / IB	15/70u	15/90u	15/120u	15/500u	15/125u	15/125u	15/60u	15/60u	15/60u
Vcc / Icc	15/100u	15/140u	15/200u	15/2000u	15/180u	15/180u	15/120u	15/1000u	15/1000u
Vdd / Idd	15/1u	-	-	-	15/15u	15/15u	-	-	-
Vin / Iin	15/20u	3.3/7u	3.3/3u	3.3/3u	15/20u	15/20u	5/25u	5/5u	5/5u
UVrise	8.6	9.0	9.0	9.0	8.6 VB 8.5 Vcc	10.2	8.9	8.9	8.9
UVfall	8.2	8.2	8.2	8.2	8.2 VB 8.2 Vcc	9.3	8.2	8.2	8.2
Io+	3.0	1.0	1.0	1.0	2.5	2.0	1.9	1.9	1.9
Io-	3.0	1.0	1.0	1.2	2.5	2.5	2.3	2.3	2.3
Notes:				OC: 2.21Vos 280ns delay 200ns filter 100ns minPW				Lin\ pulled up to +5V	SD\ pulled up to +5V