



**TF Semiconductor
Solutions**



Gate Driver ICs

Single Phase Gate Driver ICs

High-Side/Low-Side

Part	Name	IO+/IO-	Inputs	Deadtime	ton/toff	tr/tf	Package
TF2101M	600V High-Side/Low-Side Gate Drive	290mA/600mA	HIN/LIN	none	160ns/150ns	70ns/35ns	SOIC14(N)/SOIC8(N)/PDIP8
TF2106M	600V High-Side/Low-Side Gate Drive	290mA/600mA	HIN/LIN	none	220ns/200ns	100ns/35ns	SOIC8(N)/PDIP8
TF21064M	600V High-Side/Low-Side Gate Drive	200mA/600mA	HIN/LIN	none	220ns/200ns	100ns/35ns	SOIC14(N)/PDIP14
TF2110M	600V High-Side/Low-Side Gate Drive	2.5A/2.5A	HIN/LIN/SD	none	120ns/90ns	25ns/17ns	SOIC16(W)/PDIP14
TF2113M	600V High-Side/Low-Side Gate Drive	2.5A/2.5A	HIN/LIN/SD	none	120ns/90ns	25ns/17ns	SOIC16(W)/PDIP14
TF2181M	600V High-Side/Low-Side Gate Drive	1.9A/2.3A	HIN/LIN	none	180ns/220ns	40ns/20ns	SOIC8(N)/PDIP8
TF21814M	600V High-Side/Low-Side Gate Drive	1.9A/2.3A	HIN/LIN	none	180ns/220ns	40ns/20ns	SOIC14(N)/PDIP14
TF2190M	600V High-Side/Low-Side Gate Drive	4.5A/4.5A	HIN/LIN	none	140ns/140ns	25ns/20ns	SOIC8(N)
TF21904M	600V High-Side/Low-Side Gate Drive	4.5A/4.5A	HIN/LIN	none	140ns/140ns	25ns/20ns	SOIC14(N)
TF1581	250V High-Side/Low-Side Gate Driver	1.9A/2.3A	HIN/LIN	none	180ns/220ns	40ns/20ns	SOIC8(N)
TF2005M	200V High-Side/Low-Side Gate Driver	290mA/600mA	HIN/LIN	none	220ns/200ns	100ns/35ns	SOIC8(N)
TF2011M	200V High-Side/Low-Side Gate Driver	290mA/600mA	HIN/LIN	none	120ns/120ns	30ns/30ns	SOIC8(N)
TF2012M	200V High-Side/Low-Side Gate Driver	290mA/600mA	HIN/LIN	none	180ns/200ns	40ns/20ns	SOIC8(N)



Single Phase Gate Driver ICs

Half-Bridge

Part	Name	IO+/IO-	Inputs	Deadtime	ton/toff	tr/td	Package
TF2103M	600V Half-Bridge Gate Driver	290mA/600mA	HIN/LIN*	520ns	680ns/150ns	70ns/35ns	SOIC8(N)/PDIP8
TF2104M	600V Half-Bridge Gate Driver	290mA/600mA	IN/SD*	520ns	680ns/150ns	70ns/35ns	SOIC8(N)/PDIP8
TF2184M	600V Half-Bridge Gate Driver	1.9A/2.3A	IN/SD*	400ns	680ns/270ns	40ns/20ns	SOIC8(N)/PDIP8
TF21844M	600V Half-Bridge Gate Driver	1.9A/2.3A	IN/SD*	400ns -5ms	680ns/270ns	40ns/20ns	SOIC14(N)/PDIP14
TF2304M	600V Half-Bridge Gate Drive	290mA/600mA	HIN/LIN	100ns	150ns/150ns	70ns/35ns	SOIC8(N)/PDIP8
TF2108	600V Half-Bridge Gate Driver	290mA/600mA	HIN/LIN*	540ns	220ns/200ns	100ns/35ns	SOIC8(N)/PDIP8
TF21084	600V Half-Bridge Gate Driver	200mA/600mA	HIN/LIN*	540ns-5ms	220ns/200ns	100ns/35ns	SOIC14(N)/PDIP14
TF1584	250V Half-Bridge Gate Driver	1.9A/2.3A	IN/SD*	400ns	680ns/270ns	40ns/20ns	SOIC8(N)
TF1304	250V Half-Bridge Gate Drive	290mA/600mA	HIN/LIN	100ns	150ns/150ns	70ns/35ns	SOIC8(N)/PDIP8
TF1503	250V Half-Bridge Gate Driver	290mA/600mA	HIN/LIN*	520ns	680ns/150ns	70ns/35ns	SOIC8(N)
TF1504	250V Half-Bridge Gate Driver	290mA/600mA	IN/SD*	520ns	680ns/150ns	70ns/35ns	SOIC8(N)



Multi-Phase Gate Driver ICs

3-Phase IC for BLDC Motor Controller & 3-Phase Inverters

Part	Name	IO+/IO-	Inputs	Deadtime	ton/toff	tr/tf	Package
TF2136M	600V 3-Phase Half-Bridge Gate Driver	200mA/350mA	HIN*(x3), LIN*(x3)	290ns	330ns/330ns	90ns/35ns	SOIC28
TF23892M	600V 3-Phase Half-Bridge Gate Driver	350mA/650mA	HIN*(x3), LIN*(x3)	290ns	270ns/270ns	40ns/25ns	SOIC28
TF1636	250V 3-Phase Half-Bridge Gate Drive	200mA/350mA	HIN*(x3), LIN*(x3)	290ns	500ns/500ns	125ns/50ns	SOIC28
TF0636	100V 3-Phase Half-Bridge Gate Drive	200mA/350mA	HIN*(x3), LIN*(x3)	290ns	500ns/500ns	125ns/50ns	SOIC28
TF1692	250V 3-Phase Half-Bridge Gate Driver	350mA/650mA	HIN*(x3), LIN*(x3)	290ns	500ns/500ns	50ns/30ns	SOIC28
TF0692	100V 3-Phase Half-Bridge Gate Driver	350mA/650mA	HIN*(x3), LIN*(x3)	290ns	500ns/500ns	50ns/30ns	SOIC28



Product Cross Reference

TF Semi	A	B
TF1503	IRS2003	IRS2007
TF1504	IRS2004	IRS2008
TF2005	IRS2005	IRS2005
TF2101M	IRS2101	IR2101 / FAN7842/FAN7382/TF2101
TF2103A	IR2103	IRS2103
TF2103M	IRS2103	IR2103
TF2104A	IR2104	IR25602, IRS2104
TF2104M	IRS2104	IR2104/FAN7080, NCP5104
TF21064M	IRS21064	IR21064
TF2106M	IRS2106	IR2106/FAN7382M
TF21084M	IRS21084	IR21084
TF2108M	IRS2108	IR2108
TF2110M	IRS2110	IR2110/IR2113/IRS2113/ FAN7392/TF2110
TF2113M	IRS2113	IR2110/IRS2110/IR2113/ FAN7392/TF2113
TF2117	IRS2117	IR2117
TF2118	IRS2118	IR2118
TF2136M	IR2136	FAN73892
TF21814	IRS21814	IR2181/FAN73901
TF2181	IRS2181	IR2181/FAN73901
TF21844M	IRS21844	IR21844
TF2184M	IRS2184	IR2184/FAN73932
TF2190M	FAN7390/UCC27714	FAN7190/FAN7390A/ FAN7391
TF21904M	FAN7390/UCC27714	FAN7190/FAN7390A/ FAN7391
TF23892	FAN73892	IR2136/TF2136

A - Pinout Compatible and Functionally Compatible

B - Pinout Compatible and Functionally Similar

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