



**TF Semiconductor
Solutions**



Gate Driver IC Selection Guide

20V Low Side Gate Driver ICs

Telefunken Device ID	Type/Description	Max. Offset Voltage	Sink/Source Current (typ)	Inputs	Deadtime	Ton/Toff	Rise/Fall	Package
TF0211C	Low Side, Single Gate Driver	20	1.9A/1.8A	LIN	none	35ns/35ns	15ns/15ns	SOT23-5
TF0211E	Low Side, Single Gate Driver	20	1.9A/1.8A	LIN	none	35ns/35ns	15ns/15ns	SOT23-5
TF0215	Low Side, Single Gate Driver	20	1.9A/1.8A	LIN	none	35ns/35ns	15ns/15ns	SOT23-5
TF0216	Low Side, Single Gate Driver	20	1.9A/1.8A	LIN	none	35ns/35ns	15ns/15ns	SOT23-5
TF0227	Dual Low Side Gate Driver	20	4.0A/4.0A	LIN/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF0227B	Dual Low Side Gate Driver	20	4.0A/4.0A	LIN*/LIN*	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF0227C	Dual Low Side Gate Driver	20	4.0A/4.0A	LIN*/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02271	Dual Low Side Gate Driver	20	1.5A/1.5A	LIN/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02271B	Dual Low Side Gate Driver	20	1.5A/1.5A	LIN*/LIN*	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02271C	Dual Low Side Gate Driver	20	1.5A/1.5A	LIN*/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02272	Dual Low Side Gate Driver	20	2.5A/2.5A	LIN/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02272B	Dual Low Side Gate Driver	20	2.5A/2.5A	LIN*/LIN*	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02272C	Dual Low Side Gate Driver	20	2.5A/2.5A	LIN*/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02273	Dual Low Side Gate Driver	20	3.3A/3.3A	LIN/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02273B	Dual Low Side Gate Driver	20	3.3A/3.3A	LIN*/LIN*	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02273C	Dual Low Side Gate Driver	20	3.3A/3.3A	LIN*/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02275	Dual Low Side Gate Driver	20	2.5A/5.0A	LIN/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02275B	Dual Low Side Gate Driver	20	2.5A/5.0A	LIN*/LIN*	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF02275C	Dual Low Side Gate Driver	20	2.5A/5.0A	LIN*/LIN	none	100ns/50ns	20ns/20ns	SOIC8(N)
TF0280	Low Side, Single Gate Driver with LDO	20	2.5A/2.8A	LIN	none	35ns/30ns	20ns/15ns	SOT23-5
TF0281	Low Side, Single Gate Driver with LDO	20	2.5A/2.8A	LIN	none	35ns/30ns	20ns/15ns	SOT23-5

100V – 200V Gate Driver ICs

Telefunken Device ID	Type/Description	Max. Offset Voltage	Sink/Source Current (typ)	Inputs	Deadtime	Ton/Toff	Rise/Fall	Package
TF0579U	High Side/Low Side Gate Driver	100	1.25A/2.0A	HIN/LIN*	none	50ns/50ns	11ns/7.5ns	DFN10
TF05791U	High Side/Low Side Gate Driver	100	1.25A/2.0A	HIN/LIN*	none	50ns/50ns	11ns/7.5ns	DFN10
TF2003M	Half Bridge Gate Driver	200	290mA/600mA	HIN/LIN*	420ns	680ns/150ns	70ns/35ns	SOIC8(N)
TF2004M	Half Bridge Gate Driver	200	290mA/600mA	HIN/LIN*	420ns	680ns/150ns	70ns/35ns	SOIC8(N)
TF2005M	High Side/Low Side Gate Driver	200	290mA/600mA	HIN/LIN*	none	160ns/150ns	70ns/30ns	SOIC8(N)
TF2007U	Half Bridge Gate Driver	200	290mA/600mA	HIN/LIN*	420ns	100ns/100ns	70ns/35ns	SOIC8(N)
TF20071U	Half Bridge Gate Driver	200	290mA/600mA	HIN/LIN*	420ns	100ns/100ns	70ns/35ns	SOIC8(N)
TF2011M	High Side/Low Side Gate Driver	200	1.0A/1.0A	HIN/LIN*	none	120ns/120ns	30ns/30ns	SOIC8(N)

High Side Gate Driver ICs

Telefunken Device ID	Type/Description	Max. Offset Voltage	Sink/Source Current (typ)	Inputs	Deadtime	Ton/Toff	Rise/Fall	Package
TF2117	High Side Gate Driver	600	290mA/600mA	IN	none	125ns/105ns	75ns/35ns	SOIC8(N)
TF2118	High Side Gate Driver	600	290mA/600mA	IN*	none	125ns/105ns	75ns/35ns	SOIC8(N)

3-Phase Gate Driver ICs

Telefunken Device ID	Type/Description	Max. Offset Voltage	Sink/Source Current (typ)	Inputs	Deadtime	Ton/Toff	Rise/Fall	Package
TF21364M	3-Phase Gate Driver	600	200mA/350mA	HIN*/LIN*	290ns	330ns/330ns	90ns/35ns	SOIC28(W)
TF2136M	3-Phase Gate Driver	600	200mA/350mA	HIN/LIN*	290ns	330ns/330ns	90ns/35ns	SOIC28(W)
TF2366M	3-Phase Gate Driver	600	350mA/650mA	HIN/LIN*	270ns	130ns/150ns	50ns/35ns	SOIC20(W)
TF2388M	3-Phase Gate Driver	600	350mA/650mA	HIN/LIN*	270ns	130ns/150ns	50ns/35ns	SOIC20(W)
TF23892M	3-Phase Gate Driver	600	350mA/650mA	HIN/LIN*	290ns	500ns/500ns	50ns/30ns	SOIC28(W)

600V Gate Driver ICs

Telefunken Device ID	Type/Description	Max. Offset Voltage	Sink/Source Current (typ)	Inputs	Deadtime	Ton/Toff	Rise/Fall	Package
TF2101M	High-Side/Low-Side Gate Driver	600	290mA/600mA	HIN/LIN	none	160ns/150ns	70ns/35ns	SOIC8(N)
TF2103M	Half-Bridge Gate Driver	600	290mA/600mA	HIN/LIN*	520ns	680ns/150ns	70ns/35ns	SOIC8(N)
TF2104M	Half-Bridge Gate Driver	600	290mA/600mA	IN/SD*	520ns	680ns/150ns	70ns/35ns	SOIC8(N)
TF21038U	Half-Bridge Gate Driver	600	210mA/360mA	HIN/LIN	520ns	680ns/150ns	100ns/50ns	SOIC8(N)
TF2106M	High-Side/Low-Side Gate Driver	600	290mA/600mA	HIN/LIN	none	220ns/200ns	100ns/35ns	SOIC8(N)
TF21064M	High-Side/Low-Side Gate Driver	600	290mA/600mA	HIN/LIN	none	220ns/200ns	100ns/35ns	SOIC14(N)
TF2110M	High-Side/Low-Side Gate Driver	600	2.5A/2.5A	HIN/LIN	none	105ns/94ns	15ns/13ns	SOIC16(W)
TF2113M	High-Side/Low-Side Gate Driver	600	2.5A/2.5A	HIN/LIN	none	105ns/94ns	15ns/13ns	SOIC16(W)
TF2190M	High-Side/Low-Side Gate Driver	600	4.5A/4.5A	HIN/LIN	none	140ns/140ns	25ns/20ns	SOIC8(N)
TF21904M	High-Side/Low-Side Gate Driver	600	4.5A/4.5A	HIN/LIN	none	140ns/140ns	25ns/20ns	SOIC14(N)
TF2181M	High-Side/Low-Side Gate Driver	600	1.9A/2.3A	HIN/LIN	none	180ns/220ns	40ns/20ns	SOIC8(N)
TF21814M	High-Side/Low-Side Gate Driver	600	1.9A/2.3A	HIN/LIN	none	180ns/220ns	40ns/20ns	SOIC14(N)
TF2108	Half-Bridge Gate Driver	600	290mA/600mA	HIN/LIN*	540ns	220ns/200ns	100ns/35ns	SOIC8(N)
TF21084	Half-Bridge Gate Driver	600	290mA/600mA	HIN/LIN*	400ns - 5 μ s	220ns/200ns	100ns/35ns	SOIC14(N)
TF2183M	Half-Bridge Gate Driver	600	1.9A/2.3A	HIN/LIN*	400ns	180ns/220ns	40ns/20ns	SOIC8(N)
TF21834M	Half-Bridge Gate Driver	600	1.9A/2.3A	HIN/LIN*	400ns - 5 μ s	180ns/220ns	40ns/20ns	SOIC14(N)
TF2184M	Half-Bridge Gate Driver	600	1.9A/2.3A	IN/SD*	400ns	680ns/270ns	40ns/20ns	SOIC8(N)
TF21844M	Half-Bridge Gate Driver	600	1.9A/2.3A	IN/SD*	400ns - 5 μ s	680ns/270ns	40ns/20ns	SOIC14(N)
TF2304M	Half Bridge Gate Driver	500	290mA/600mA	HIN/LIN*	100ns	150ns/150ns	70ns/35ns	SOIC8(N)

Important Phone Numbers:

Sales North America: +(1) 916-580-5805

Sales Europe: +(1) 916-580-5805

Sales Asia: +86-1351-102-3160

Customer Service: +(1) 916-865-4961

