

Fairchild Power MOSFETs QFET™ Line Card

Overview

Fairchild Semiconductor, a leading innovator in the design and manufacture of high-performance semiconductors, introduces QFET™, an advanced technology for power MOSFETs. QFET™

Fairchild's new stripe active cell process technology, QFET™, boosts efficiency in power system designs without increasing system cost. The new technology increases power density, reduces power loss and improves reliability. Quantifiable advances in system performance include greater switching speeds, cooler running temperatures, and increased ruggedness.



Applications include:

HD-TVs, Flat Panel Displays (PDP, TFT-LCD)
Desktop PCs and Peripherals
Industrial Ballasts and Compact Ballasts
Power Supplies for Telecommunication and Servers
DC-DC Modules for Telecommunication

DC-AC Applications (Inverter)
PFC Applications
Motor Control Applications
Professional Audio Amplifiers and Car Boosters

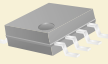
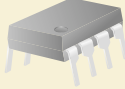

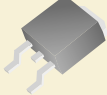
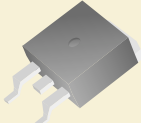
Across the board. Around the world.

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SEMICONDUCTOR®

October, 2001

QFET™ Selection Guide: Surface Mount Packages

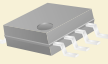
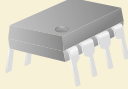

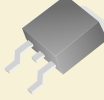
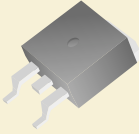
30V ~ 200V

								
V_{DSS} (V)	$R_{DS(on)max}$ (Ω)	Q_g, typ (nC)	$V_{GS}^{1)}$ (V)	8-SOP	8-DIP	SOT-223	D-PAK	D²-PAK
30	0.006	73	5					FQB140N03L
30	0.0115	36	5					FQB95N03L
30	0.019	18.5	5					FQB60N03L
30	0.02	21	5	FQS4410				
30	0.024	18.5	5				FQD60N03L	
30	0.025	15	5					FQB45N03L
30	0.031	15	5				FQD45N03L	
30	0.048	8	5					FQB26N03L
30	0.058	8	5				FQD26N03L	
60	0.01	86	10					FQB85N06
60	0.016	48	10					FQB65N06
60	0.02	35	10					FQB55N06
60	0.022	31	10					FQB50N06
60	0.025	24.5	5					FQB50N06L
60	0.04	19	10					FQB30N06
60	0.045	19	10				FQD30N06	
60	0.045	15	5					FQB30N06L
60	0.047	15	5				FQD30N06L	
60	0.06	11.5	10					FQB20N06
60	0.063	11.5	10				FQD20N06	
60	0.07	9.5	5					FQB20N06L
60	0.075	9.5	5				FQD20N06LE 2)	
60	0.075	9.5	5				FQD20N06L	
60	0.135	5.8	10					FQB13N06
60	0.14	5.8	10			FQT13N06	FQD13N06	
60	0.14	4.8	5			FQT13N06L		FQB13N06L
60	0.145	4.8	5				FQD13N06L	
60/300	0.65/16	1.6/3.6	±5	FQS4900				
80	0.016	84	10					FQB90N08
80	0.017	75	10					FQB70N08
80	0.024	50	10					FQB58N08
80	0.034	38	10					FQB44N08
80	0.06	19	10				FQD24N08	FQB24N08
80	0.115	12	10				FQD17N08	FQB17N08
80	0.115	8.8	5				FQD17N08L	FQB17N08L
80	0.21	5.9	10				FQD9N08	FQB9N08
80	0.23	4.7	5				FQD9N08L	FQB9N08L
100	0.023	85	10					FQB70N10
100	0.026	75	10					FQB55N10
100	0.039	48	10					FQB44N10
100	0.052	38	10					FQB33N10
100	0.055	30	5					FQB33N10L
100	0.1	19	10				FQD19N10	FQB19N10
100	0.11	14	5				FQD19N10L	FQB19N10L
100	0.18	12	10				FQD13N10	FQB13N10
100	0.2	8.7	5				FQD13N10L	FQB13N10L
100	0.35	5.8	10			FQT7N10	FQD7N10	FQB7N10
100	0.38	4.6	5			FQT7N10L	FQD7N10L	FQB7N10L
150	0.042	85	10					FQB46N15
150	0.09	40	10					FQB28N15
150	0.16	23	10				FQD16N15	FQB16N15
150	0.21	18	10				FQD14N15	FQB14N15
150	0.4	10	10				FQD9N15	FQB9N15
150	0.6	6.5	10				FQD6N15	FQB6N15
150	0.8	5.4	10				FQD5N15	FQB5N15
200	0.075	60	10					FQB34N20
200	0.08	55	5					FQB34N20L
200	0.15	31	10					FQB19N20

Note 1) ±10V: Standard level, ±5V: Logic level, 2) G-S Diode

QFET™ Selection Guide: Surface Mount Packages (continued)

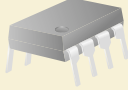
200V ~ 800V

								
BV _{DSS} (V)	R _{DS(on)} max ($\frac{m\Omega}{mm^2}$)	Q _{g, typ} (nC)	V _{GS} ¹⁾ (V)	8-SOP	8-DIP	SOT-223	D-PAK	D²-PAK
200	0.15	27	5					FQB19N20L
200	0.28	18	10				FOD12N20	FQB12N20
200	0.32	16	5				FOD12N20L	FQB12N20L
200	0.36	13.5	10				FOD10N20	FQB10N20
200	0.38	13	5				FOD10N20L	FQB10N20L
200	0.4	19	10				FOD630	FQB630
200	0.69	8	10				FOD7N20	FQB7N20
200	0.78	6.8	5				FOD7N20L	FQB7N20L
200	1.2	6	10				FOD5N20	FQB5N20
200	1.25	4.8	5				FOD5N20L	FQB5N20L
200	1.4	5	10			FQT4N20	FQD4N20	FQB4N20
200	1.4	4	5			FQT4N20L	FQD4N20L	FQB4N20L
250	0.11	50	10					FQB27N25
250	0.23	27	10					FQB16N25
250	0.42	15.5	10				FQD9N25	FQB9N25
250	0.55	12	10				FQD8N25	FQB8N25
250	1	6.6	10				FQD6N25	FQB6N25
250	1.75	4.3	10			FQT4N25	FQD4N25	FQB4N25
250	2.2	4	10				FQD3N25	FQB3N25
250/250	2/2	4.3/11	±10		FQG4902*			
300	0.29	30	10					FQB14N30
300	0.45	17	10					FQB9N30
300	0.7	13	10				FQD7N30	FQB7N30
300	0.9	9.8	10				FQD5N30	FQB5N30
300	2.2	5.5	10				FQD3N30	FQB3N30
300	3.7	3.7	10				FQD2N30	FQB2N30
400	0.48	27	10					FQB11N40
400	0.8	16.5	10					FQB7N40
400	1.15	13	10				FQD6N40	FQB6N40
400	1.6	10	10				FQD5N40	FQB5N40
400	3.4	6	10				FQD3N40	FQB3N40
400/400	4.2	5.8	10	FQS4901				
400	5.8	4	10				FQD2N40	
400/400	3/3	7/19	±10		FQG4904*			
450	1.1	16	10					FQB6N45
500	0.73	28	10					FQB9N50
500	1.3	17	10					FQB6N50
500	1.8	13	10				FQD5N50	FQB5N50
500	2.7	10	10				FQD4N50	FQB4N50
500	5.3	6	10				FQD2N50	FQB2N50
500	5.3	6	10				FQD2N50B ³⁾	
500/500	6.2	6.3	10	FQS4903				
500	9	4	10				FQD1N50	
500	9	4	10				FQD1N50B ³⁾	
600	0.7	42	10					FQB12N60
600	1	29	10					FQB7N60
600	1.5	20	10					FQB6N60
600	2	16	10					FQB5N60
600	2.2	15	10					FQB4N60
600	3.6	10	10				FQD3N60	FQB3N60
600	4.7	9	10				FQD2N60	FQB2N60
600	11.5	5	10				FQD1N60	FQB1N60
700	1.5	30	10					FQB6N70
800	1.5	40	10					FQB7N80
800	1.95	31	10					FQB6N80
800	2.6	25	10					FQB5N80
800	3.6	19	10					FQB4N80
800	5	15	10					FQB3N80

Note *In Development, 1) ±10V: Standard level, ±5V: Logic level, 3) VTH 3V

QFET™ Selection Guide: Surface Mount Packages (continued)




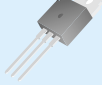
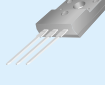
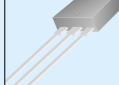

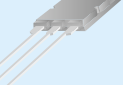
800V ~ 900V, -500V ~ -60V

								
BV _{DSS} (V)	R _{DS(on)} max (mΩ)	Q _{g, typ} (nC)	V _{GS} ¹⁾ (V)	8-SOP	8-DIP	SOT-223	D-PAK	D²-PAK
800	6.3	12	10				FOD2N80	FOB2N80
800	20	5.5	10				FOD1N80	
900	1.9	40	10					FOB6N90
900	2.3	31	10					FOB5N90
900	3.1	24	10					FOB4N90
900	4.25	20	10					FOB3N90
900	5.8	15	10					FOB2NA90
900	7.2	12	10				FOD2N90	FOB2N90
-60	0.026	84	-10					FOB47P06
-60	0.07	33	-10					FOB27P06
-60	0.12	21	-10					FOB17P06
-60	0.135	21	-10				FOD17P06	
-60	0.175	13	-10					FOB11P06
-60	0.185	13	-10				FOD11P06	
-60	0.41	6.3	-10			FQT7P06		FOB7P06
-60	0.45	6.3	-10				FOD7P06	
-100	0.125	40	-10					FOB22P10
-100	0.19	30	-10					FOB17P10
-100	0.29	21	-10				FOD12P10	FOB12P10
-100	0.53	12	-10				FOD8P10	FOB8P10
-100	1.05	6.3	-10			FQT5P10	FOD5P10	FOB5P10
-200	0.47	31	-10					FOB12P20
-200	0.69	19	-10				FOD7P20	FOB7P20
-200	1.4	10	-10				FOD5P20	FOB5P20
-200	2.7	6	-10			FQT3P20	FOD3P20	FOB3P20
-250	0.62	29	-10					FOB9P25
-250	1.1	21	-10				FOD6P25	FOB6P25
-250	2.1	10	-10				FOD4P25	FOB4P25
-250	4	6.5	-10			FQT2P25	FOD2P25	FOB2P25
-400	3.1	18	-10				FOD4P40	FOB4P40
-400	6.5	10	-10				FOD2P40	FOB2P40
-500	4.9	18	-10				FOD3P50	FOB3P50
-500	10.5	11	-10				FOD1P50	FOB1P50

Note 1) ±10V: Standard level, ±5V: Logic level

QFET™ Selection Guide: Through Hole Packages





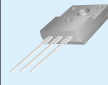
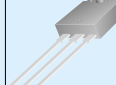
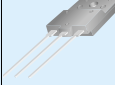
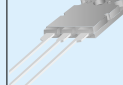
30V ~ 200V

											
V_{DSS} (V)	$R_{DS(on)max}$ (Ω)	Q_g, typ (nC)	$V_{GS}^{1)}$ (V)	TO-92L	I-PAK	I ² -PAK	TO-220	TO-220F	TO-3P	TO-3PF	TO-264
30	0.006	73	5			FQI140N03L	FQP140N03L	FQPF140N03L			
30	0.0115	36	5			FQI95N03L	FQP95N03L	FQPF95N03L			
30	0.019	18.5	5			FQI60N03L	FQP60N03L	FQPF60N03L			
30	0.024	18.5	5		FQU60N03L						
30	0.025	15	5			FQI45N03L	FQP45N03L	FQPF45N03L			
30	0.031	15	5		FQU45N03L						
30	0.048	8	5			FQI26N03L	FQP26N03L	FQPF26N03L			
30	0.058	8	5		FQU26N03L						
60	0.0056	220	10						FOA170N06		
60	0.01	86	10			FQI85N06	FQP85N06	FQPF85N06	FOA85N06	FOAF85N06	
60	0.016	48	10			FQI65N06	FQP65N06	FQPF65N06	FOA65N06	FOAF65N06	
60	0.02	35	10			FQI55N06	FQP55N06	FQPF55N06			
60	0.022	31	10			FQI50N06	FQP50N06	FQPF50N06			
60	0.025	24.5	5			FQI50N06L	FQP50N06L	FQPF50N06L			
60	0.04	19	10			FQI30N06	FQP30N06	FQPF30N06			
60	0.045	19	10		FQU30N06						
60	0.045	15	5			FQI30N06L	FQP30N06L	FQPF30N06L			
60	0.047	15	5		FQU30N06L						
60	0.06	11.5	10			FQI20N06	FQP20N06	FQPF20N06			
60	0.063	11.5	10		FQU20N06						
60	0.07	9.5	5			FQI20N06L	FQP20N06L	FQPF20N06L			
60	0.075	9.5	5		FQU20N06L						
60	0.135	5.8	10			FQI13N06	FQP13N06	FQPF13N06			
60	0.14	5.8	10		FQU13N06						
60	0.14	4.8	5			FQI13N06L	FQP13N06L	FQPF13N06L			
60	0.145	4.8	5		FQU13N06L						
80	0.007	220	10						FOA160N08		
80	0.016	84	10			FQI90N08	FQP90N08	FQPF90N08	FOA90N08	FOAF90N08	
80	0.017	75	10			FQI70N08	FQP70N08	FQPF70N08	FOA70N08	FOAF70N08	
80	0.024	50	10			FQI58N08	FQP58N08	FQPF58N08	FOA58N08	FOAF58N08	
80	0.034	38	10			FQI44N08	FQP44N08	FQPF44N08	FOA44N08	FOAF44N08	
80	0.06	19	10		FQU24N08	FQI24N08	FQP24N08	FQPF24N08			
80	0.115	12	10		FQU17N08	FQI17N08	FQP17N08	FQPF17N08			
80	0.115	8.8	5		FQU17N08L	FQI17N08L	FQP17N08L	FQPF17N08L			
80	0.21	5.9	10		FQU9N08	FQI9N08	FQP9N08	FQPF9N08			
80	0.23	4.7	5		FQU9N08L	FQI9N08L	FQP9N08L	FQPF9N08L			
100	0.01	220	10						FOA140N10		
100	0.023	85	10			FQI70N10	FQP70N10	FQPF70N10	FOA70N10	FOAF70N10	
100	0.026	75	10			FQI55N10	FQP55N10	FQPF55N10	FOA55N10	FOAF55N10	
100	0.039	48	10			FQI44N10	FQP44N10	FQPF44N10	FOA44N10	FOAF44N10	
100	0.052	38	10			FQI33N10	FQP33N10	FQPF33N10	FOA33N10	FOAF33N10	
100	0.055	30	5			FQI33N10L	FQP33N10L	FQPF33N10L	FOA33N10L	FOAF33N10L	
100	0.1	19	10		FQU19N10	FQI19N10	FQP19N10	FQPF19N10			
100	0.11	14	5		FQU19N10L	FQI19N10L	FQP19N10L	FQPF19N10L			
100	0.18	12	10		FQU13N10	FQI13N10	FQP13N10	FQPF13N10			
100	0.2	8.7	5		FQU13N10L	FQI13N10L	FQP13N10L	FQPF13N10L			
100	0.35	5.8	10		FQU7N10	FQI7N10	FQP7N10	FQPF7N10			
100	0.38	4.6	5		FQU7N10L	FQI7N10L	FQP7N10L	FQPF7N10L			
150	0.018	220	10						FOA90N15		
150	0.028	135	10						FOA70N15	FOAF70N15	
150	0.042	85	10			FQI46N15	FQP46N15	FQPF46N15	FOA46N15	FOAF46N15	
150	0.09	40	10			FQI28N15	FQP28N15	FQPF28N15	FOA28N15	FOAF28N15	
150	0.16	23	10		FQU16N15	FQI16N15	FQP16N15	FQPF16N15			
150	0.21	18	10		FQU14N15	FQI14N15	FQP14N15	FQPF14N15			
150	0.4	10	10		FQU9N15	FQI9N15	FQP9N15	FQPF9N15			
150	0.6	6.5	10		FQU6N15	FQI6N15	FQP6N15	FQPF6N15			
150	0.8	5.4	10		FQU5N15	FQI5N15	FQP5N15	FQPF5N15			
200	0.032	170	10						FOA65N20		
200	0.05	100	10						FOA48N20	FOAF48N20	
200	0.075	60	10			FQI34N20	FQP34N20	FQPF34N20	FOA34N20	FOAF34N20	

Note 1) ±10V: Standard level, ±5V: Logic level

QFET™ Selection Guide: Through Hole Packages (continued)




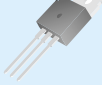

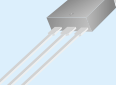
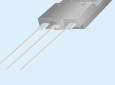
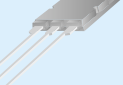
200V ~ 500V

												
V_{DSS} (V)	$R_{DS(on)}$ max (Ω)	Q_g , typ (nC)	V_{GS}^1 (V)		TO-92L	I-PAK	P-PAK	TO-220	TO-220F	TO-3P	TO-3PF	TO-264
200	0.08	55	5				FQI34N20L	FQP34N20L	FQPF34N20L	FOA34N20L	FOAF34N20L	
200	0.15	31	10				FQI19N20L	FQP19N20L	FQPF19N20L	FOA19N20L	FOAF19N20L	
200	0.15	27	5				FQI19N20L	FQP19N20L	FQPF19N20L	FOA19N20L	FOAF19N20L	
200	0.28	18	10		FQU12N20	FQI12N20L	FQI12N20L	FQP12N20L	FQPF12N20L			
200	0.32	16	5		FQU12N20L	FQI12N20L	FQI12N20L	FQP12N20L	FQPF12N20L			
200	0.36	13.5	10		FQU10N20	FQI10N20L	FQI10N20L	FQP10N20L	FQPF10N20L			
200	0.38	13	5		FQU10N20L	FQI10N20L	FQI10N20L	FQP10N20L	FQPF10N20L			
200	0.4	19	10		FQU630	FQI630	FQI630	FQP630	FQPF630			
200	0.69	8	10		FQU7N20	FQI7N20L	FQI7N20L	FQP7N20L	FQPF7N20L			
200	0.78	6.8	5		FQU7N20L	FQI7N20L	FQI7N20L	FQP7N20L	FQPF7N20L			
200	1.2	6	10		FQU5N20	FQI5N20L	FQI5N20L	FQP5N20L	FQPF5N20L			
200	1.25	4.8	5		FQU5N20L	FQI5N20L	FQI5N20L	FQP5N20L	FQPF5N20L			
200	1.4	5	10		FQU4N20	FQI4N20L	FQI4N20L	FQP4N20L	FQPF4N20L			
200	1.4	4	5		FQU4N20L	FQI4N20L	FQI4N20L	FQP4N20L	FQPF4N20L			
250	0.04	140	10							FOA55N25		
250	0.07	85	10							FOA40N25	FOAF40N25	
250	0.085	60	10								FOAF34N25*	
250	0.11	50	10				FQI27N25	FQP27N25	FQPF27N25	FOA27N25	FOAF27N25	
250	0.23	27	10				FQI16N25	FQP16N25	FQPF16N25	FOA16N25	FOAF16N25	
250	0.42	15.5	10		FQU9N25	FQI9N25L	FQI9N25L	FQP9N25L	FQPF9N25L			
250	0.55	12	10		FQU8N25	FQI8N25L	FQI8N25L	FQP8N25L	FQPF8N25L			
250	1	6.6	10		FQU6N25	FQI6N25L	FQI6N25L	FQP6N25L	FQPF6N25L			
250	1.75	4.3	10		FQU4N25	FQI4N25L	FQI4N25L	FQP4N25L	FQPF4N25L			
250	2.2	4	10		FQU3N25	FQI3N25L	FQI3N25L	FQP3N25L	FQPF3N25L			
300	0.069	120	10							FOA44N30		
300	0.085	90	10							FOA38N30		
300	0.135	60	10							FOA26N30	FOAF26N30	
300	0.16	47	10					FQP22N30	FQPF22N30	FOA22N30	FOAF22N30	
300	0.29	30	10				FQI14N30	FQP14N30	FQPF14N30	FOA14N30	FOAF14N30	
300	0.45	17	10				FQI9N30	FQP9N30	FQPF9N30			
300	0.7	13	10		FQU7N30	FQI7N30L	FQI7N30L	FQP7N30L	FQPF7N30L			
300	0.9	9.8	10		FQU5N30	FQI5N30L	FQI5N30L	FQP5N30L	FQPF5N30L			
300	2.2	5.5	10		FQU3N30	FQI3N30L	FQI3N30L	FQP3N30L	FQPF3N30L			
300	3.7	3.7	10		FQU2N30	FQI2N30L	FQI2N30L	FQP2N30L	FQPF2N30L			
400	0.075	160	10									FQI50N40
400	0.105	110	10							FOA35N40		
400	0.14	90	10							FOA30N40		
400	0.22	60	10							FOA20N40	FOAF20N40	
400	0.27	45	10					FQP17N40	FQPF17N40	FOA17N40	FOAF17N40	
400	0.48	27	10				FQI11N40	FQP11N40	FQPF11N40	FOA11N40	FOAF11N40	
400	0.8	16.5	10				FQI7N40	FQP7N40	FQPF7N40			
400	1.15	13	10		FQU6N40	FQI6N40L	FQI6N40L	FQP6N40L	FQPF6N40L			
400	1.6	10	10		FQU5N40	FQI5N40L	FQI5N40L	FQP5N40L	FQPF5N40L			
400	3.4	6	10		FQU3N40	FQI3N40L	FQI3N40L	FQP3N40L	FQPF3N40L			
400	5.8	4	10		FQU2N40			FQP2N40	FQPF2N40			
450	1.1	16	10				FQI6N45	FQP6N45	FQPF6N45			
500	0.11	155	10									FQI40N50F 2)
500	0.11	155	10									FQI40N50
500	0.16	110	10							FOA28N50F 2)		
500	0.16	110	10							FOA28N50		
500	0.2	90	10							FOA24N50F 2)		
500	0.2	90	10							FOA24N50		
500	0.32	60	10							FOA16N50	FOAF16N50	
500	0.43	45	10					FQP13N50	FQPF13N50	FOA13N50	FOAF13N50	
500	0.73	28	10				FQI9N50	FQP9N50	FQPF9N50	FOA9N50	FOAF9N50	
500	1.3	17	10				FQI6N50	FQP6N50	FQPF6N50			
500	1.8	13	10		FQU5N50	FQI5N50L	FQI5N50L	FQP5N50L	FQPF5N50L			
500	2.7	10	10		FQU4N50	FQI4N50L	FQI4N50L	FQP4N50L	FQPF4N50L			
500	5.3	6	10		FQU2N50	FQI2N50L	FQI2N50L	FQP2N50L	FQPF2N50L			
500	5.3	6	10		FQNI2N50B 3)	FQU2N50B 3)						

Note: *In Development, 1) $\pm 10V$: Standard level, $\pm 5V$: Logic level, 2) FRFET, 3) VTH 3V

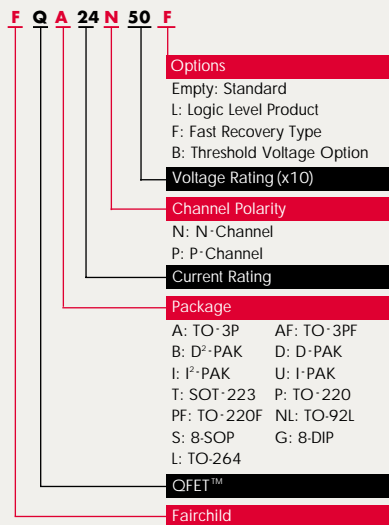
QFET™ Selection Guide : Through Hole Packages (continued)

500V ~ 900V , -500V ~ -60V

											
V_{DSS} (V)	$R_{DS(on)max}$ (Ω)	Q_g, typ (nC)	$V_{GS}^{1)}$ (V)	TO-92L	I-PAK	I²-PAK	TO-220	TO-220F	TO-3P	TO-3PF	TO-264
500	9	4	10		FQU1N50		FQP1N50	FQPF1N50			
500	9	4	10	FQNL1N50B 3)	FQU1N50B 3)						
600	0.24	110	10						FOA24N60		
600	0.38	70	10						FOA19N60	FOAF19N60	
600	0.7	42	10			FQI12N60	FQP12N60	FQPF12N60	FOA12N60	FOAF12N60	
600	1	29	10			FQI7N60	FQP7N60	FQPF7N60	FOA7N60	FOAF7N60	
600	1.5	20	10			FQI6N60	FQP6N60	FQPF6N60			
600	2	16	10			FQI5N60	FQP5N60	FQPF5N60			
600	2.2	15	10			FQI4N60	FQP4N60	FQPF4N60			
600	3.6	10	10		FQU3N60	FQI3N60	FQP3N60	FQPF3N60			
600	4.7	9	10		FQU2N60	FQI2N60	FQP2N60	FQPF2N60			
600	11.5	5	10		FQU1N60	FQI1N60	FQP1N60	FQPF1N60			
700	0.56	70	10						FOA15N70	FOAF15N70	
700	1.5	30	10			FQI6N70	FQP6N70	FQPF6N70	FOA6N70	FOAF6N70	
800	0.75	68	10						FOA13N80	FOAF13N80	
800	1.05	55	10						FOA10N80	FOAF10N80	
800	1.2	44	10						FOA8N80	FOAF8N80	
800	1.5	40	10			FQI7N80	FQP7N80	FQPF7N80	FOA7N80	FOAF7N80	
800	1.95	31	10			FQI6N80	FQP6N80	FQPF6N80	FOA6N80	FOAF6N80	
800	2.6	25	10			FQI5N80	FQP5N80	FQPF5N80			
800	3.6	19	10			FQI4N80	FQP4N80	FQPF4N80			
800	5	15	10			FQI3N80	FQP3N80	FQPF3N80			
800	6.3	12	10		FQU2N80	FQI2N80	FQP2N80	FQPF2N80			
800	20	5.5	10		FQU1N80						
900	0.96	72	10						FOA11N90	FOAF11N90	
900	1.3	55	10						FOA9N90	FOAF9N90	
900	1.55	45	10						FOA7N90	FOAF7N90	
900	1.8	40	10						FOA7N90M		
900	1.9	40	10			FQI6N90	FQP6N90	FQPF6N90	FOA6N90	FOAF6N90	
900	2.3	31	10			FQI5N90	FQP5N90	FQPF5N90	FOA5N90	FOAF5N90	
900	3.1	24	10			FQI4N90	FQP4N90	FQPF4N90			
900	4.25	20	10			FQI3N90	FQP3N90	FQPF3N90			
900	5.8	15	10			FQI2NA90	FQP2NA90	FQPF2NA90			
900	7.2	12	10		FQU2N90	FQI2N90	FQP2N90	FQPF2N90			
-60	0.026	84	-10			FQI47P06	FQP47P06	FQPF47P06	FOA47P06	FOAF47P06	
-60	0.7	33	-10			FQI27P06	FQP27P06	FQPF27P06			
-60	0.12	21	-10			FQI17P06	FQP17P06	FQPF17P06			
-60	0.135	21	-10		FQU17P06						
-60	0.175	13	-10			FQI11P06	FQP11P06	FQPF11P06			
-60	0.185	13	-10		FQU11P06						
-60	0.41	6.3	-10			FQI7P06	FQP7P06	FQPF7P06			
-60	0.45	6.3	-10		FQU7P06						
-100	0.125	40	-10			FQI22P10	FQP22P10	FQPF22P10	FOA22P10	FOAF22P10	
-100	0.19	30	-10			FQI17P10	FQP17P10	FQPF17P10	FOA17P10	FOAF17P10	
-100	0.29	21	-10		FQU12P10	FQI12P10	FQP12P10	FQPF12P10			
-100	0.53	12	-10		FQU8P10	FQI8P10	FQP8P10	FQPF8P10			
-100	1.05	6.3	-10		FQU5P10	FQI5P10	FQP5P10	FQPF5P10			
-200	0.47	31	-10			FQI12P20	FQP12P20	FQPF12P20	FOA12P20	FOAF12P20	
-200	0.69	19	-10		FQU7P20	FQI7P20	FQP7P20	FQPF7P20			
-200	1.4	10	-10		FQU5P20	FQI5P20	FQP5P20	FQPF5P20			
-200	2.7	6	-10		FQU3P20	FQI3P20	FQP3P20	FQPF3P20			
-250	0.62	29	-10			FQI9P25	FQP9P25	FQPF9P25	FOA9P25	FOAF9P25	
-250	1.1	21	-10		FQU6P25	FQI6P25	FQP6P25	FQPF6P25			
-250	2.1	10	-10		FQU4P25	FQI4P25	FQP4P25	FQPF4P25			
-250	4	6.5	-10		FQU2P25	FQI2P25	FQP2P25	FQPF2P25			
-400	3.1	18	-10		FQU4P40	FQI4P40	FQP4P40	FQPF4P40			
-400	6.5	10	-10		FQU2P40	FQI2P40	FQP2P40	FQPF2P40			
-500	4.9	18	-10		FQU3P50	FQI3P50	FQP3P50	FQPF3P50			
-500	10.5	11	-10		FQU1P50	FQI1P50	FQP1P50	FQPF1P50			

Note 1) $\pm 10V$: Standard level, $\pm 5V$: Logic level, 3) VTH 3V

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