

FAIRCHILD Power Modules, Load and Power Switches



Products may be RoHS compliant. Check mouser.com for RoHS status.

FULL FUNCTION LOAD SWITCHES (CONT.)

MOUSER STOCK NO.	Fairchild Part No.	Package	Input Voltage Range	Off Supply Current (Max.) (µA)	RDSon (Typ)(Ω)		Quiescent Current (Typ./Max.) (µA)	Rise Time (Typ.)(µs)	Fall Time (Type)(µs)	Price Each			
					@V	@Amps				1	25	100	250
◆ 512-PPF2104	FPF2104	SOT-23-5	1.8-5.5	1	0.125@3.3	0.05	95/-----	12	136	.87	.729	.622	.538
◆ 512-PPF2106	FPF2106	SOT-23-5	1.8-5.5	1	0.125@3.3	0.05	95/-----	12	136	1.22	.97	.873	.752
◆ 512-PPF2107	FPF2107	SOT-23-5	1.8-5.5	1	0.125@3.3	0.05	95/-----	12	136	1.25	.99	.891	.775
◆ 512-PPF2123	FPF2123	SOT-23-5	1.8-5.5	2	0.125@3.3	0.05	75/-----	12	200	1.14	.945	.806	.797
◆ 512-PPF2125	FPF2125	SOT-23-5	1.8-5.5	2	0.125@3.3	0.05	75/-----	12	200	1.30	1.02	.916	.797
◆ 512-PPF2165R	FPF2165R	MLP-6	1.8-5.5	2	0.12@3.3	0.2	63/100	10	110	1.33	1.05	.947	.816
◆ 512-PPF2700MPX	FPF2700MPX	MLP-8	2.8-36.0	5	0.114@12	-----	92/140	7500	1500	2.22	1.60	1.42	1.29
◆ 512-PPF2700MX	FPF2700MX	SOIC-8	2.8-36.0	5	0.114@12	-----	92/140	7500	1500	2.15	1.55	1.37	1.24
◆ 512-PPF2701MPX	FPF2701MPX	MLP-8	2.8-36.0	5	0.088@12	-----	92/140	7500	1500	2.22	1.78	1.33	1.25
◆ 512-PPF2701MX	FPF2701MX	SOIC-8	2.8-36.0	5	0.088@12	-----	92/140	7500	1500	2.15	1.72	1.29	1.21
◆ 512-PPF2702MPX	FPF2702MPX	MLP-8	2.8-36.0	5	0.088@12	-----	92/140	7500	1500	2.22	1.78	1.33	1.25
◆ 512-PPF2702MX	FPF2702MX	SOIC-8	2.8-36.0	5	0.088@12	-----	92/140	7500	1500	2.15	1.72	1.29	1.21

For quantities greater than listed, call for quote.

INTEGRATED LOAD SWITCHES

Surface Mount Device

MOUSER STOCK NO.	Fairchild Part No.	Package	Input Voltage Range	Off Supply Current (Max.) (µA)	RDSon (Max.) (Ω)		Leakage Current (Max.) (µA)	Power Dissipation (Max.) (W)	Price Each			
					@4.5V	@Amps			1	25	100	250
◆ 512-FDC6330L	FDC6330L	SSOT-6	3-20	1.6	0.125	1.9	1	0.7	.51	.425	.363	.36
◆ 512-FDC6323L	FDC6323L	SSOT-6	3-8.0	1.5	0.2	-----	1	0.7	.47	.397	.339	.293

For quantities greater than listed, call for quote.

USB SWITCHES



Surface Mount Device

MOUSER STOCK NO.	Fairchild Part No.	Package	No. of Switches	Supply Voltage Range	RDSon (Ω)	RDSon Flatness (Ω)	Leakage Current (Max.) (µA)	Bandwidth (MHz)	Crosstalk (dB)	Price Each			
										1	25	100	250
◆ 512-FSA2000UMX	FSA2000UMX	UMLP-16	2	2.7-4.5	4	0.4	10	720	-60	1.25	1.00	.75	.70
◆ 512-FSA831L10X	FSA831L10X	MicroPak-10	1	-2.0-2.8	9	-----	10	240	-36	.90	.75	.60	.45
◆ 512-FSA880UMX	FSA880UMX	UMLP-16	1	3.0-3.4	8	-----	10	-----	-60	1.04	.78	.59	.44
◆ 512-FSUSB30L10X	FSUSB30L10X	MicroPak-10	1	3.0-3.4	9	2	1	720	-45	1.79	1.41	1.26	1.10
◆ 512-FSUSB30UMX	FSUSB30UMX	MSOP-10	1	3.0-3.4	9	2	1	720	-45	1.37	1.10	1.03	.807
◆ 512-FSUSB30UMX	FSUSB30UMX	UMLP-10	1	3.0-3.4	9	2	1	720	-45	1.79	1.41	1.26	1.10
◆ 512-FSUSB42UMX	FSUSB42UMX	UMLP-10	1	3.0-4.3	6.5	0.65	2	720	-45	1.79	1.41	1.26	1.10

For quantities greater than listed, call for quote.

SMART HIGH SIDE SWITCH



Surface Mount Device

MOUSER STOCK NO.	Fairchild Part No.	Package	Supply Voltage (Max.) (V)	Supply Voltage (Min.) (V)	Supply Current (mA)	On Resistance (Max.) (mΩ)	Power Dissipation (Max.) (W)	On/Off Time (Max.) (us)	Price Each			
									1	25	100	250
◆ 512-FDSD100H06_F085	FDSD100H06_F085	TO-252-5	37	5.5	0.5	100	41.6	170/170	1.48	1.18	.89	.83

For quantities greater than listed, call for quote.

OFFLINE ICs - POWER SWITCH

Fairchild Power Switch Designer Software (10.5M)
 This software currently only works with Windows 95 and Windows 98.
 Available online at:
fairchildsemi.com/products/analog/fps_designer_software.zip



The Fairchild Power Switch(FPS) product family is specially designed for an off line SMPS with minimal external components. The Fairchild Power Switch(FPS) consist of a high voltage power SenseFET and a current mode PWM IC.

Surface Mount Device

MOUSER STOCK NO.	Fairchild Part No.	Package	Output Power Vac (W)			Peak Current Limit (A)	Drain Voltage (Max.) (V)	RDS On (Ohms)	Switching Frequency (kHz)	Power Saver	Soft Start	Over Current Protection	Price Each		
			Max. @ 85-165V	Max. @ 230V	Max. @ 350-400								1	25	100
◆ 512-FAN7621N	FAN7621N	DIP-16	---	---	200	---	---	Resonant	Yes	Soft Start	Latch	1.61	1.30	1.17	
◆ 512-FAN7621SJ	FAN7621SJ	SOIC-16	---	---	---	---	---	Resonant	Yes	Soft Start	Latch	1.26	1.05	.84	
512-FS7M0880TU	FS7M0880TU	TO-3P	85	110	---	5	800	1.5	66	No	Soft Start	Latch	3.84	3.08	2.80
512-FSB127HNY	FSB127HNY	DIP-8	---	40	---	Adj.	700	7.2	100	No	Soft Start	Auto-Restart	1.75	1.40	1.05
512-FSB147HNY	FSB147HNY	DIP-8	---	40	---	5	700	2.7	100	Yes	Soft Start	Auto Restart	1.63	1.30	.98
512-FSCQ0965RTYDTU	FSCQ0965RTYDTU	TO-220F	110	130	---	6	650	1.2	QRC	Yes	Soft Start	Latch	2.32	1.86	1.39
512-FSCQ1565RTYDTU	FSCQ1565RTYDTU	TO-220F	170	210	---	8	650	0.65	QRC	Yes	Internal	Latch	4.20	3.37	3.07
512-FSD146MRBN	FSD146MRBN	DIP-8	26	35	---	1.5	---	2.6	73	No	Soft Start	Auto Restart	.96	.80	.64
512-FSD156MRBN	FSD156MRBN	DIP-8	30	40	---	1.75	---	2.2	73	No	Soft Start	Auto Restart	.87	.73	.58
512-FSD176MRTLDTU	FSD176MRTLDTU	TO-220-6	70	90	---	3.85	---	1.6	73	No	Soft Start	Auto Restart	2.88	2.16	1.62
512-FSD176MRTUDTU	FSD176MRTUDTU	TO-220-6	70	90	---	3.85	---	1.6	73	No	Soft Start	Auto Restart	1.80	1.44	1.08
512-FSDM0465REWDTU	FSDM0465REWDTU	TO-220-6	38	46	---	1.8	650	2.6	67	Yes	Soft Start	Auto Restart	1.95	1.57	1.38
512-FSDM311A	FSDM311A	DIP-8	8	13	---	0.57	650	19	67	Yes	Soft Start	No	.99	.79	.696
512-FSFA2100	FSFA2100	SIP-9	---	---	200	---	600	1.35	Asym	Yes	Soft Start	Latch	7.47	6.12	5.52
512-FSFR1600XS	FSFR1600XS	SIP-9	---	---	---	---	500	1.55	Resonant	Yes	Soft Start	Auto Restart	1.51	1.34	1.20
512-FSFR1700	FSFR1700	SIP-9	---	---	100	---	500	1.25	Resonant	Yes	Soft Start	Latch	4.72	4.03	3.66
512-FSFR1700USL	FSFR1700USL	SIP-9	---	---	100	---	500	1.25	Resonant	Yes	Soft Start	Auto Restart	2.70	2.16	1.68
512-FSFR1800USL	FSFR1800USL	SIP-9	---	---	120	---	500	0.95	Resonant	Yes	Soft Start	Auto Restart	4.32	3.93	3.60
512-FSFR1700HS	FSFR1700HS	SIP-9	---	---	120	---	---	0.95	600	No	Soft Start	Auto Restart	3.40	2.72	2.12
512-FSFR1700HSL	FSFR1700HSL	SIP-9	---	---	120	---	---	0.95	600	No	Soft Start	Auto Restart	3.60	2.88	2.24
512-FSFR1700XS	FSFR1700XS	SIP-9	---	---	---	---	500	1.25	Resonant	Yes	Soft Start	Auto Restart	2.88	2.08	1.55
512-FSFR1800HS	FSFR1800HS	SIP-9	---	---	120	---	---	0.95	600	No	Soft Start	Auto Restart	3.60	2.88	2.24
512-FSFR1800HSL	FSFR1800HSL	SIP-9	---	---	120	---	---	0.95	600	No	Soft Start	Auto Restart	4.86	4.07	3.24
512-FSFR2100	FSFR2100	SIP-9	---	---	200	---	600	0.38	Resonant	Yes	Soft Start	Latch	5.60	4.48	3.78
512-FSFR2100USL	FSFR2100USL	SIP-9	---	---	180	---	500	0.51	Resonant	Yes	Soft Start	Auto Restart	6.34	5.77	5.28
512-FSFR2100XS	FSFR2100XS	SIP-9	---	---	---	---	500	0.51	Resonant	Yes	Soft Start	Auto Restart	3.93	2.83	2.51
512-FSGM0565RWDTU	FSGM0565RWDTU	TO-220F	60	80	---	2.2	650	2.2	67	Yes	Internal	Auto Restart	1.41	1.13	.85
512-FSL106HR	FSL106HR	DIP-8	10	13	---	0.7	650	18	100	Yes	Internal	Auto Restart	.82	.66	.497
512-FSL126HR	FSL126HR	DIP-8	17	21	---	1.5	650	6.2	100	Yes	Internal	Auto Restart	1.31	1.09	.874
512-FSL136HR	FSL136HR	DIP-8	20	26	---	2.15	650	4	100	Yes	Internal	Auto Restart	1.66	1.38	1.10
512-FSL176MRTUDTU	FSL176MRTUDTU	TO-220-6	70	80	---	3.5	650	1.6	73	No	Internal	Auto-Restart	2.50	2.00	1.56
◆ 512-FSL206MRL	FSL206MRL	SOP-8	12	17	---	0.6	650	19	67	Yes	Internal	No	.96	.80	.64
512-FSL206MRBN	FSL206MRBN	DIP-8	7	12	---	0.6	650	19	73	No	Soft Start	Auto Restart	.96	.80	.64
512-FSL206MRN	FSL206MRN	DIP-8	12	17	---	0.6	650	19	67	Yes	Internal	No	.84	.70	.56
512-FSQ0165RN	FSQ0165RN	DIP-8	13	15	---	0.6	650	10	QRC	Yes	Soft Start	Auto Restart	1.37	1.09	.96
512-FSQ0170RNA	FSQ0170RNA	DIP-8	13	20	---	1.2	700	11	67	Yes	Soft Start	No	1.37	1.09	.955
512-FSQ0265RL	FSQ0265RL	LSOP-8	16	20	---	1.2	650	6	QRC	Yes	Soft Start	Auto Restart	1.55	1.25	1.12
512-FSQ0365RN	FSQ0365RN	DIP-8	19	31	---	1.5	650	4.5	QRC	Yes	Soft Start	Auto Restart	1.61	1.30	1.17
512-FSQ110	FSQ110	DIP-8	12	17	---	0.7	650	19	100	Yes	Soft Start	No	1.02	.88	.65
512-FSQ321	FSQ321	DIP-8	10	12	---	0.6	650	19	QRC	Yes	Soft Start	Auto Restart	.77	.62	.529
512-FSQ510	FSQ510	DIP-7	5	7	---	0.32	700	32	QRC	Yes	Soft Start	Auto Restart	1.18	.946	.828
◆ 512-FSQ500L	FSQ500L	SOT-223	2.5	3	---	0.315	---	29	140	No	Soft Start	Auto Restart	1.43	1.07	.821
512-KA5H0365RTU	KA5H0365RTU	TO-220F	32	40	---	2.2	650	4.5	100	No	No	Auto Restart	1.49	1.33	1.16
512-KA5H0380RTU	KA5H0380RTU	TO-220F	32	40	---	2.2	800	5	100	No	No	Auto Restart	1.76	1.58	1.39
512-KA5L0380RTU	KA5L0380RTU	TO-220F	32	40	---	2.2	800	3.6	50	No	No	Auto Restart	1.76	1.58	1.39
512-KA5L0380RYDTU	KA5L0380RYDTU	TO-220F	32	40	---	2.2	800	5	50	No	No	Auto Restart	1.76	1.58	1.39
512-KA5M0365RTU	KA5M0365RTU	TO-220F	32	40	---	2.2	800	5	50	No	No	Auto Restart	1.36	1.33	1.16
512-KA5M0380RTU	KA5M0380RTU	TO-220F	32	40	---	2.2	800	5	67	No	No	Auto Restart	2.01	1.61	1.20
512-KA5M0380RYDTU	KA5M0380RYDTU	TO-220F	---	---	---	3	800	4.5	70	No	Internal	Auto-Restart	2.08	1.86	1.67
512-FSL116HR	FSL116HR	DIP-8	14	16	---	---	650	10	110	No	Soft Start	Auto Restart	.81	.68	.54
512-FSL116LR	FSL116LR	DIP-8	14	16	---	---	650	10	54.5	No	Soft Start	Auto Restart	1.05	.88	.70
512-FSL126MR	FSL126MR	DIP-8	17	21	---	---	650	6.2	73	No	Soft Start	Auto Restart	1.11	.925	.74