

FAIRCHILD PFC ICs, Power Switch and SPMs



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



PWM CONTROLLERS



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Number of Outputs	Control Mode	Switching Freq.	Supply Voltage Max	Duty Ratio	Startup Current	Operating Temp.	Price Each			
										1	25	100	250
512-FAN6754MLMY	FAN6754MLMY	SOIC-8	1	Current	65 kHz	30V	92%	30uA	-40 to 105°C	.75	.63	.50	.38
512-FAN6754MRMY	FAN6754MRMY	SOIC-8	1	Current	65 kHz	30V	92%	30uA	-40 to 105°C	.75	.63	.50	.38



POWER FACTOR CORRECTION

◆ Surface Mount Device

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Startup Current (uA)	Operating Current (mA)	PFC Control	Drive Output (A)	Fpwm FPfc	PWM Duty Cycle Max (%)	UVLO	Price Each				
										1	25	100	250	
PFC														
◆ 512-FAN4810M	FAN4810M	SOIC-16	200	5.5	Average Current	1	1	49	13/10	1.89	1.66	1.12	1.08	
512-FAN4810N	FAN4810N	DIP-16	200	5.5	Average Current	1	1	49	13/10	2.04	1.64	1.23	1.17	
◆ 512-FAN7527BMX	FAN7527BMX	SOIC-8	60	3	Disc (Transition)	1	-	-	12/9	.78	.65	.52	.47	
512-FAN7527BN	FAN7527BN	DIP-8	60	3	Disc (Transition)	0.5	-	-	12/9	.78	.65	.52	.39	
PWM + PFC														
512-ML4800CP	ML4800CP	DIP-16	200	5.5	Average Current	1	1	49	13/10	2.57	2.20	1.90	1.83	
512-ML4824CP1	ML4824CP1	DIP-16	700	16	Average Current	0.5	1	49	13/10	3.71	2.97	2.31	2.19	
◆ 512-ML4824CS2X	ML4824CS2X	SOIC-16(W)	700	16	Average Current	1	1	49	13/10	5.48	4.38	3.70	3.56	
512-ML4824IP1	ML4824IP1	DIP-16	700	16	Average Current	0.5	1	49	13/10	3.57	2.90	2.24	2.04	



SMART POWER MODULES

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Max. Input Voltage	Maximum Current	Frequency	Motor Rating	Price Each			
							1	25	100	250
512-FPAB30BH60	FPAB30BH60	SPM27-1A	600V	30A	20kHz	264VAC	15.47	14.43	13.40	13.24
512-FSAM10SH60A	FSAM10SH60A	SPM32-AA P	600V	10A	15kHz	220VAC	18.20	16.98	15.77	15.46
512-FSAM30SH60A	FSAM30SH60A	SPM32-AA P	600V	30A	15kHz	220VAC	24.62	22.97	21.33	20.92
512-FSAM30SM60A	FSAM30SM60A	SPM32-AA P	600V	30A	5kHz	220VAC	23.12	21.57	20.03	19.58
512-FSAM50SM60A	FSAM50SM60A	SPM32-CA	600V	50A	5kHz	200VAC	46.20	43.11	40.04	39.27
512-FSAM75SM60A	FSAM75SM60A	SPM-32DA	600V	75A	5kHz	200VAC	67.45	62.95	58.46	57.33
512-FSBF10CH60B	FSBF10CH60B	SPM27-CC	600V	15A	20kHz	253VAC	13.59	12.22	10.84	10.51
512-FSBF10CH60BT	FSBF10CH60BT	SPM27-JA	600V	15A	20kHz	253VAC	12.83	11.54	10.23	9.98
512-FSBF15CH60BT	FSBF15CH60BT	SPM27-JA	600V	3A	20kHz	220VAC	13.86	12.93	12.01	11.78



OFFLINE IC'S - POWER SWITCH

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. Included PWM controller features integrated fixed oscillator, the under voltage lock out, the leading edge blanking, the optimized gate turn-on/turn-off driver, the thermal shutdown protection, the over voltage protection, and the temperature compensated precision current sources for the loop compensation and a fault protection circuitry. compared with a discrete MOSFET and a controller or a RCC switching converter solution, a Fairchild Power Switch(FPS) can reduce total component count, design size, and weight and at the same time increase efficiency, productivity, and system reliability. It has a basic platform well suited for the cost effective LCD monitor power supply.

Fairchild Power Switch Designer Software (10.5M)
 This software currently only works with Windows 95 and Windows 98.

Contains:

- FPS Designer Software Installation Notes - Instructions and Requirements (.txt file)
- FPS Designer Software Installer (.exe file)
- FPS Designer User Guide (.doc file)
- FPS Designer User Guide (.pdf file)

Available online @ www.fairchildsemi.com/products/analog/fps_designer_software.zip

For quantities of 250 and up, call for quote.

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 at 85-165V	Max at 230V								1	25	100
512-FS7M0880TU	FS7M0880TU	TO-3P	85	110	5.0	800	1.5	66	No	Soft Start	Latch	2.93	2.34	1.82
512-FSCQ0765RTYDTU	FSCQ0765RTYDTU	TO-220F	85	100	5.0	650	1.6	QRC	Yes	Soft Start	Latch	1.88	1.50	1.12
512-FSCQ0965RTYDTU	FSCQ0965RTYDTU	TO-220F	110	130	6.0	650	1.2	QRC	Yes	Soft Start	Latch	2.00	1.60	1.20
512-FSCQ1265RTYDTU	FSCQ1265RTYDTU	TO-220F	140	170	7.0	650	0.9	QRC	Yes	Soft Start	Latch	2.40	1.92	1.44
512-FSCQ1465RTYDTU	FSCQ1465RTYDTU	TO-220F	160	210	8.0	650	0.8	QRC	Yes	Soft Start	Auto Restart	3.21	2.94	2.25
512-FSCQ1565RPVDTU	FSCQ1565RPVDTU	TO-220F	170	210	8.0	650	0.065	QRC	Yes	Soft Start	Auto Restart	5.39	3.10	2.82
512-FSCQ1565RTYDTU	FSCQ1565RTYDTU	TO-220F	170	210	8.0	650	0.65	QRC	Yes	Soft Start	Latch	2.88	2.30	2.15
512-FSDM0465REWDTU	FSDM0465REWDTU	TO-220F	38	46	1.8	650	2.6	67	Yes	Soft Start	Auto Restart	1.60	1.22	1.14
512-FSDM1265RBWDTU	FSDM1265RBWDTU	TO-220F	90	130	3.4	650	0.9	67	Yes	Soft Start	Auto Restart	2.40	1.92	1.44
512-FSDM311A	FSDM311A	DIP-8	8	13	0.57	650	19	67	Yes	Soft Start	No	.87	.73	.58
512-FSQ0165RN	FSQ0165RN	DIP-8	13	15	0.6	650	10	QRC	Yes	Soft Start	Auto Restart	.90	.72	.56
512-FSQ0170RNA	FSQ0170RNA	DIP-8	13	20	1.2	700	11	67	Yes	Soft Start	No	1.23	.952	.833
512-FSQ0265RL	FSQ0265RL	LSOP	16	20	1.2	650	6	QRC	Yes	Soft Start	Auto Restart	1.25	1.00	.75
512-FSQ0365RL	FSQ0365RL	LSOP	19	25	1.5	650	4.5	QRC	Yes	Soft Start	Auto Restart	1.30	1.04	.78
512-FSQ0365RN	FSQ0365RN	DIP-8	19	31	1.5	650	4.5	QRC	Yes	Soft Start	Auto Restart	1.20	1.00	.80
512-FSQ0370RNA	FSQ0370RNA	DIP-8	19	27	2.2	700	4.75	67	Yes	Soft Start	No	1.54	1.28	1.02
512-FSQ0765RWDTU	FSQ0765RWDTU	TO-220F	70	90	3.5	650	1.6	QRC	Yes	Soft Start	Auto Restart	1.63	1.30	.975
512-FSQ110	FSQ110	DIP-8	12	17	0.7	650	19	100	Yes	Soft Start	No	1.20	1.04	.76
512-FSQ311	FSQ311	DIP-8	8	10	0.9	650	19	QRC	Yes	Soft Start	Auto Restart	.72	.576	.448
512-FSQ311L	FSQ311L	LSOP	8	10	0.6	650	19	QRC	Yes	Soft Start	Auto Restart	.96	.80	.64
512-FSQ321	FSQ321	DIP-8	10	12	0.6	650	19	QRC	Yes	Soft Start	Auto Restart	.59	.525	.448
512-FSQ321L	FSQ321L	LSOP	10	12	0.6	650	19	QRC	Yes	Soft Start	Auto Restart	.97	.792	.754
512-FSQ510	FSQ510	DIP-7	5	7	0.32	700	32	QRC	Yes	Soft Start	Auto Restart	1.14	1.00	.82
512-FSQ510H	FSQ510H	DIP-8	5	7	0.32	700	32	QRC	Yes	Soft Start	Auto Restart	1.08	.90	.72
512-KA5H0365RTU	KA5H0365RTU	TO-220F-4L	32	40	2.2	650	4.5	100	No	No	Auto Restart	1.77	1.58	1.09
512-KA5H0380RTU	KA5H0380RTU	TO-220F-4L	32	40	2.2	800	5	100	No	No	Auto Restart	2.12	1.85	1.54
512-KA5L0380RTU	KA5L0380RTU	TO-220F-4L	32	40	2.2	800	3.6	50	No	No	Auto Restart	2.12	1.85	1.54
512-KA5L0380RYDTU	KA5L0380RYDTU	TO-220F	32	40	2.2	800	5	50	No	No	Auto Restart	2.12	1.85	1.54
512-KA5M0365RTU	KA5M0365RTU	TO-220F	32	40	2.2	800	5	50	No	No	Auto Restart	1.77	1.64	1.36
512-KA5M0380RTU	KA5M0380RTU	TO-220F-4L	32	40	2.2	800	5	67	No	No	Auto Restart	2.12	1.85	1.54

