

# FAIRCHILD PFC ICs, Power Switch and SPMs



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

## POWER FACTOR CORRECTION (PFC) (CONT.)

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Startup Current (μA)	Operating Current (mA)	PFC Control	Drive Output (A)	F <sub>pwm</sub> F <sub>Pfc</sub>	PWM Duty Cycle (%)	UVLO	Price Each				
										1	25	100	250	
PWM + PFC (Cont.)														
512-ML4824CP1	ML4824CP1	DIP-16	700	16	Average Current	0.5	1	49	13/10	3,92	3,15	2,87	2,56	
◆ 512-ML4824CS2X	ML4824CS2X	SOIC-16(W)	700	16	Average Current	1	1	49	13/10	5,07	4,55	4,03	3,71	
512-ML4824IP1	ML4824IP1	DIP-16	700	16	Average Current	0.5	1	49	13/10	3,32	2,67	2,43	2,17	

## SMART POWER MODULES

◆ Surface Mount Device

For quantities greater than listed, 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-IA	600V	30A	20kHz	264VAC	18,17	15,44	14,31	13,17
512-FSAM10SH60A	FSAM10SH60A	SPM32-AA	600V	10A	15kHz	220VAC	20,06	17,05	15,80	14,54
512-FSAM30SM60A	FSAM30SM60A	SPM32-AA	600V	30A	5kHz	220VAC	30,67	26,07	24,15	22,23
512-FSAM75SM60A	FSAM75SM60A	SPM-32DA	600V	75A	5kHz	200VAC	67,10	59,75	56,61	54,51
512-FSBF10CH60B	FSBF10CH60B	SPM27-CC	600V	15A	20kHz	253VAC	14,81	12,45	11,44	10,43
512-FSBF15CH60BT	FSBF15CH60BT	SPM27-JA	600V	3A	20kHz	220VAC	16,77	14,10	12,95	11,81

## FULL FUNCTION LOAD SWITCHES

◆ Surface Mount Device

For quantities greater than listed, call for quote.

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
										1	25	100	250
◆ 512-PPF1008	PPF1008	MicroFET-6	1.2-5.5	1	0.03 @ 5.5	0.2	8.0/-	80	15	0,76	0,569	0,427	0,319
◆ 512-PPF1009	PPF1009	MicroFET-6	1.2-5.5	1	0.03 @ 5.5	0.2	8.0/-	1	15	0,76	0,586	0,52	0,45
◆ 512-PPF1038UCX	PPF1038UCX	WLCSP-6	1.2-5.5	1	0.02 @ 5.5	1	5.5/-	2700	30000	0,62	0,52	0,413	0,314
◆ 512-PPF1207UCX	PPF1207UCX	WLCSP-4	1.2-4.0	0.1	0.05 @ 3.3	0.2	-1.5	110	2	0,56	0,421	0,322	0,239
◆ 512-PPF1208UCX	PPF1208UCX	WLCSP-4	1.2-4.0	0.1	0.05 @ 3.3	0.2	-1.5	110	2	0,56	0,421	0,322	0,239
◆ 512-PPF2125	PPF2125	SOT-23-5	1.8-5.5	2	0.16 @ 3.3	0.05	75/-	12	200	1,07	0,842	0,756	0,658
◆ 512-PPF2700MPX	PPF2700MPX	MLP-8	2.8-36.0	5	0.114@12	-	92/140	7500	1500	1,83	1,32	1,17	1,06
◆ 512-PPF2700MX	PPF2700MX	SOIC-8	2.8-36.0	5	0.114@12	-	92/140	7500	1500	1,77	1,28	1,13	1,02

## INTEGRATED LOAD SWITCHES

◆ Surface Mount Device

For quantities greater than listed, call for quote.

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
									1	25	100	250
◆ 512-FDC6330L	FDC6330L	SSOT-6	3-20	1.6	0.125	1.9	1	0.7	0,42	0,351	0,299	0,297

## USB SWITCHES

◆ Surface Mount Device

For quantities greater than listed, call for quote.

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	1,03	0,825	0,619	0,578
◆ 512-FSUSB30MUX	FSUSB30MUX	MSOP-10	1	3.0-3.4	9	2	1	720	-45	1,13	0,908	0,85	0,666

## OFFLINE IC'S - POWER SWITCH

**Fairchild Power Switch Designer Software (10.5M)**  
 This software currently only works with Windows 95 and Windows 98.  
 Available online at:  
[www.fairchildsemi.com/products/analog/fps\\_designer\\_software.zip](http://www.fairchildsemi.com/products/analog/fps_designer_software.zip)

◆ Surface Mount Device

For quantities greater than listed, 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	Max at 350-400								1	25	100
512-FS7M0880TU	FS7M0880TU	TO-3P	85	110	-	5	800	1.5	66	No	Latch	3,17	2,54	2,31	
512-FSCQ0965RTYDTU	FSCQ0965RTYDTU	TO-220F	110	130	-	6	650	1.2	QRC	Yes	Latch	1,91	1,53	1,15	
512-FSDM0465REWDTU	FSDM0465REWDTU	TO-220F	38	46	-	1.8	650	2.6	67	Yes	Auto Restart	1,61	1,30	1,14	
512-FSDM311A	FSDM311A	DIP-8	8	13	-	0.57	650	19	67	Yes	No	0,82	0,652	0,574	
512-FSQ0165RN	FSQ0165RN	DIP-8	13	15	-	0.6	650	10	QRC	Yes	Auto Restart	1,13	0,899	0,792	
512-FSQ0170RNA	FSQ0170RNA	DIP-8	13	20	-	1.2	700	11	67	Yes	No	1,13	0,899	0,788	
◆ 512-FSQ0265RL	FSQ0265RL	LSOP-8	16	20	-	1.2	650	6	QRC	Yes	Auto Restart	1,28	1,03	0,924	
512-FSQ0365RN	FSQ0365RN	DIP-8	19	31	-	1.5	650	4.5	QRC	Yes	Auto Restart	1,33	1,07	0,965	
512-FSQ110	FSQ110	DIP-8	12	17	-	0.7	650	19	100	Yes	No	0,84	0,726	0,536	
512-FSQ321	FSQ321	DIP-8	10	12	-	0.6	650	19	QRC	Yes	Auto Restart	0,64	0,513	0,436	
512-FSQ510	FSQ510	DIP-7	5	7	-	0.32	700	32	QRC	Yes	Auto Restart	0,97	0,78	0,683	
512-KA5H0365RTU	KA5H0365RTU	TO-220F	32	40	-	2.2	650	4.5	100	No	Auto Restart	1,23	1,10	0,957	
512-KA5H0380RTU	KA5H0380RTU	TO-220F	32	40	-	2.2	800	5	100	No	Auto Restart	1,45	1,30	1,15	
512-KA5L0380RTU	KA5L0380RTU	TO-220F	32	40	-	2.2	800	3.6	50	No	Auto Restart	1,45	1,30	1,15	
512-KA5L0380RYDTU	KA5L0380RYDTU	TO-220F	32	40	-	2.2	800	5	50	No	Auto Restart	1,45	1,30	1,15	
512-KA5M0365RTU	KA5M0365RTU	TO-220F	32	40	-	2.2	800	5	50	No	Auto Restart	1,12	1,10	0,957	
512-KA5M0380RTU	KA5M0380RTU	TO-220F	32	40	-	2.2	800	5	67	No	Auto Restart	1,66	1,33	0,99	
◆ 512-FAN7621SJ	FAN7621SJ	SOIC-16	-	-	-	-	-	-	Resonant	Yes	Soft Start	Latch	1,04	0,866	0,693
512-FSA2100	FSA2100	SIP-9	-	-	200	-	600	0.38	Asym	Yes	Soft Start	Latch	6,16	5,05	4,55
512-FSFR1600XS	FSFR1600XS	SIP-9	-	-	-	-	500	1.55	Resonant	Yes	Soft Start	Auto Restart	1,73	1,25	1,11
512-FSFR1700	FSFR1700	SIP-9	-	-	100	-	500	1.25	Resonant	Yes	Soft Start	Latch	3,89	3,32	3,02
512-FSFR1700USL	FSFR1700USL	SIP-9	-	-	100	-	500	1.25	Resonant	Yes	Soft Start	Auto Restart	2,23	1,78	1,39
512-FSFR1800USL	FSFR1800USL	SIP-9	-	-	120	-	500	0.95	Resonant	Yes	Soft Start	Auto Restart	3,56	3,24	2,97
512-FSFR1700XS	FSFR1700XS	SIP-9	-	-	-	-	500	1.25	Resonant	Yes	Soft Start	Auto Restart	1,82	1,31	1,16
512-FSFR2100	FSFR2100	SIP-9	-	-	200	-	600	0.38	Resonant	Yes	Soft Start	Latch	4,62	3,70	3,12
512-FSFR2100U	FSFR2100U	SIP-9	-	-	180	-	500	0.51	Resonant	Yes	Soft Start	Latch	3,96	3,55	3,23
512-FSFR2100USL	FSFR2100USL	SIP-9	-	-	180	-	500	0.51	Resonant	Yes	Soft Start	Auto Restart	3,12	2,84	2,60
512-FSFR2100XS	FSFR2100XS	SIP-9	-	-	-	-	500	0.51	Resonant	Yes	Soft Start	Auto Restart	2,92	2,10	1,86
512-FSGM0565RWDTU	FSGM0565RWDTU	TO-220F	60	80	-	2.2	650	2.2	67	Yes	Internal	Auto Restart	1,16	0,932	0,701
◆ 512-FSL206MRL	FSL206MRL	SOP-8	12	17	-	0.6	650	19	67	Yes	Internal	No	0,79	0,66	0,528
512-FSL206MRN	FSL206MRN	DIP-8	12	17	-	0.6	650	19	67	Yes	Internal	No	0,69	0,578	0,462
◆ 512-FSQ510MX	Fsq510MX	SOP-7	5	7	-	0.32	700	32	QRC	Yes	Internal	Auto Restart	1,00	0,792	0,706