

FAIRCHILD Voltage References, PWMs and PFCs

FAIRCHILD

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

Power Management Fairchild Semiconductor

LOW DROPOUT VOLTAGE REGULATORS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Output Type	Preset Output Volt (Typ.) (V)	Output Current (A)	Dropout Voltage (@I _{out}) (V)	Input Voltage (Min.) (V)	Input Voltage (Max.) (V)	Operating Temperature (°C)	Output Disable Function	Price Each			
											1	10	100	1000
◆ 512-FAN25800AUCF27X	FAN25800AUCF27X	WLCSP-4	Single	2.7	0.5	0.13	2.3	5.5	-40 to 85	Yes	.61	.455	.286	.214
◆ 512-FAN25800AUC28X	FAN25800AUC28X	WLCSP-4	Single	2.8	0.25	0.13	2.3	5.5	-40 to 85	Yes	.54	.455	.277	.214
◆ 512-FAN2500S33X	FAN2500S33X	SOT-23	Single	3.3	0.1	0.1	3.4	7	-40 to 125	Yes	.65	.508	.328	.262
◆ 512-FAN2503S33X	FAN2503S33X	SOT-23	Single	3.3	0.2	0.15	3.45	7	-40 to 125	Yes	.70	.544	.351	.281
◆ 512-FAN25800AUC33X	FAN25800AUC33X	WLCSP-4	Single	3.3	0.5	0.13	2.3	5.5	-40 to 85	Yes	.61	.455	.286	.214
◆ 512-KA78R33CTU	KA78R33CTU	TO-220F	Single	3.3	1.0	0.5	-	35	-20 to 80	Yes	.95	.768	.59	.412
◆ 512-KA278R33CTU	KA278R33CTU	TO-220F	Single	3.3	2	0.5	3.8	35	-20 to 80	Yes	.97	.829	.637	.444
◆ 512-KA78R05CTU	KA78R05CTU	TO-220F	Single	5	1.0	0.5	-	35	-20 to 80	Yes	.90	.774	.595	.415
◆ 512-KA78R12CTU	KA78R12CTU	TO-220F	Single	12	1.0	0.5	-	35	-20 to 80	Yes	.95	.769	.591	.412
◆ 512-KA278R12CTU	KA278R12CTU	TO-220F	Single	12	2	0.5	12.5	35	-20 to 80	Yes	.99	.848	.651	.454
◆ 512-KA78R15CTU	KA78R15CTU	TO-220F	Single	15	1.0	0.5	-	35	-20 to 80	Yes	.95	.768	.59	.411
◆ 512-FAN2500SX	FAN2500SX	SOT-23	Single	Adj.	0.1	0.1	-	37	-40 to 125	Yes	.62	.484	.312	.25
◆ 512-LP2951CM	LP2951CM	SOIC-8	Single	Adj.	0.1	0.6	2.5	30	-40 to 125	No	.56	.469	.286	.221
◆ 512-LP2951CMX	LP2951CMX	SOIC-8	Single	Adj.	0.1	0.6	-	30	-40 to 125	No	.67	.521	.336	.269
◆ 512-FAN2558S33X	FAN2558S33X	SOT-23	Single	Adj.	0.18	0.25	-	7	-40 to 125	Yes	.64	.496	.32	.256
◆ 512-FAN2558S35X	FAN2558S35X	SOT-23-5	Single	Adj.	0.18	0.25	2.7	5.5	-40 to 125	No	.97	.779	.598	.417
◆ 512-FAN2558SX	FAN2558SX	SOT-23-6	Single	Adj.	0.18	0.25	2.7	5.5	-40 to 125	No	.64	.496	.32	.256

BATTERY CHARGE MANAGEMENT ICs

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Description	Supply Voltage (V)	Supply Current (A)	Automatic Charge	Battery Absent Behavior	Price Each			
								1	10	100	1000
◆ 512-FAN54020UCX	FAN54020UCX	WLCSP-25	USB to Li-Ion Switching Charger w/DBP and OTG Boost	3.3 to 7.5	0.022	Yes	On	3.55	2.85	2.59	1.76
◆ 512-FAN54013BUCX	FAN54013BUCX	WLCSP-20	USB to OTG Li-Ion Switching Charger	3.5 to 4.4	0.01	Yes	Off	1.57	1.26	.968	.675
◆ 512-FAN5403BUCX	FAN5403BUCX	WLCSP-20	USB to OTG Li-Ion Switching Charger	3.5 to 4.4	0.01	Yes	Off	1.22	.98	.753	.525
◆ 512-FSA832L10X_F131	FSA832L10X_F131	MicroPak-10	Charger Detection IC with Iso. Switch	4.0 to 6.0	0.00025	No	Off	.82	.642	.414	.331
◆ 512-FAN54053UCX	FAN54053UCX	WLCSP-25	USB to OTG Li-Ion Switching Charger	4.0 to 6.0	2.3	No	On	2.07	1.67	1.34	.971
◆ 512-FSA832L10X	FSA832L10X	MicroPak-10	USB Charger Detection w/Isolation Switch	4.0 to 6.0	-	No	No	.82	.642	.414	.331

SHUNT VOLTAGE REFERENCES

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Preset Output Voltage (V)	Adj. Output Voltage (Min.) (V)	Adj. Output Voltage (Max.) (V)	Tolerance (%)	Max. Current (mA)	Price Each			
								1	10	100	1000
◆ 512-LM336Z25X	LM336Z25X	TO-92R	2.5	2.5	37.0	2	15	.37	.286	.155	.116
◆ 512-LM336Z5X	LM336Z5X	TO-92R	5	4	6.0	4	15	.43	.286	.159	.116
◆ 512-LM431SBCM32X	LM431SBCM32X	SOT-23	Adj.	0.2	36.0	1	100	.35	.227	.097	.075
◆ 512-LM431SCCM32X	LM431SCCM32X	SOT-23	Adj.	0.2	36.0	0.5	100	.40	.227	.097	.075
◆ 512-LM431CCZ	LM431CCZ	TO-92R	Adj.	2.5	37.0	0.5	100	.45	.294	.126	.097
◆ 512-KA431LZTA	KA431LZTA	TO-92R	Adj.	2.5	37.0	0.5	100	.41	.267	.114	.088
◆ 512-LM431SCCMFX	LM431SCCMFX	SOT-23	Adj.	2.5	37.0	0.5	100	.51	.286	.123	.094
◆ 512-KA431AZBU	KA431AZBU	TO-92R	Adj.	2.5	37.0	1	100	.41	.27	.116	.089
◆ 512-LM431BCMX	LM431BCMX	SOIC-8	Adj.	2.5	37.0	1	100	.42	.353	.215	.166
◆ 512-LM431SBCMFX	LM431SBCMFX	SOT-23	Adj.	2.5	37.0	1	100	.52	.292	.125	.096
◆ 512-LM431BIZ	LM431BIZ	TO-92R	Adj.	2.5	37.0	1	100	.37	.264	.121	.093
◆ 512-KA431AZTA	KA431AZTA	TO-92R	Adj.	2.5	37.0	2	100	.41	.267	.115	.088
◆ 512-KA431SAMFTF	KA431SAMFTF	SOT-23	Adj.	2.5	37.0	2	100	.48	.31	.133	.102
◆ 512-LM431ACZ	LM431ACZ	TO-92R	Adj.	2.5	37.0	2	100	.37	.239	.103	.079
◆ 512-LM431SACMFX	LM431SACMFX	SOT-23	Adj.	2.5	37.0	2	100	.40	.258	.111	.085
◆ 512-KA431SAMF2TF	KA431SAMF2TF	SOT-23	Adj.	2.5	37.0	2	100	.42	.272	.117	.089
◆ 512-LM336Z5	LM336Z5	TO-92R	Adj.	4	6.0	4	15	.37	.286	.155	.116
◆ 512-FHR1200	FHR1200	SC70-6	Adj.	7.5	100.0	2	50	.43	.332	.18	.135

PWM CONTROLLERS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Number of Outputs	Control Mode	Switching Frequency (kHz)	Supply Volt. (Max.) (V)	Duty Ratio (%)	Startup Current (µA)	Operating Temp. (°C)	Price Each			
										1	10	100	1000
◆ 512-FSL336LRLX	FSL336LRLX	LSOP-7	1	Current	50	26	-	155	-40 to 125	1.74	1.41	1.12	.817
◆ 512-FAN6605MX	FAN6605MX	SOIC-7	1	Current	65	22	90	30	-40 to 105	.90	.728	.559	.39
◆ 512-FSL4110LRN	FSL4110LRN	DIP-7	1	Current	50	26	73	2000	-40 to 125	2.26	1.92	1.54	1.11
◆ 512-FAN6602RM6X	FAN6602RM6X	SOT-23-6	1	Current	65	30	85	8	-40 to 105	.69	.581	.375	.30
◆ 512-FAN6604MLMX	FAN6604MLMX	SOP-8	1	Current	65	30	90	30	-40 to 105	.90	.728	.559	.39
◆ 512-FAN6604MRMX	FAN6604MRMX	SOP-8	1	Current	65	30	90	30	-40 to 105	.90	.728	.559	.39
◆ 512-FAN6757MRMX	FAN6757MRMX	SOP-8	1	Current	65	30	90	30	-40 to 105	.97	.784	.602	.42
◆ 512-FAN7602CMX	FAN7602CMX	NSOIC-8	1	Current	73	25	80	1400	-40 to 150	.93	.725	.468	.374
◆ 512-FSGM300N	FSGM300N	DIP-8	1	Current	73	26	83	1250	-40 to 125	1.43	1.22	.94	.656
◆ 512-FAN302HLMY_F117	FAN302HLMY_F117	SOIC-8	1	Current	88	30	70	450	-40 to 105	.96	.744	.48	.384
◆ 512-FL6300AMY	FL6300AMY	SOIC-8	1	Current	100	30	-	10	-40 to 125	1.16	.932	.716	.499
◆ 512-KA7552A	KA7552A	DIP-8	1	Voltage	135	16.5	70	90	-25 to 85	.89	.744	.48	.384
◆ 512-KA7553A	KA7553A	DIP-8	1	Voltage	135	16.5	46	90	-25 to 85	.89	.744	.48	.384
◆ 512-FAN302ULMY	FAN302ULMY	SOIC-8	1	Current	140	25	67	450	-40 to 105	.96	.744	.48	.384
◆ 512-FAN501AMPX	FAN501AMPX	MLP-10	1	Current	140	15	77	250	-40 to 125	.87	.70	.538	.375
◆ 512-FAN501MPX	FAN501MPX	MLP-10	1	Current	140	15	77	250	-40 to 125	.87	.70	.538	.375
◆ 512-FAN6300HMY	FAN6300HMY	SOIC-8	1	Current	190	30	-	10	-40 to 125	1.04	.84	.645	.45
◆ 512-FAN7601BMX	FAN7601BMX	SOIC-8	1	Current	300	20	98	1000	-40 to 150	1.73	.567	.366	.292
◆ 512-KA7500C	KA7500C	DIP-16	2	Voltage	300	42	-	1000	-25 to 85	.70	.589	.38	.304
◆ 512-FAN5026MTCX	FAN5026MTCX	TSSOP-28	2	DDR	300	24	87	5	-40 to 85	2.41	1.95	1.56	1.13
◆ 512-FAN5234MTCX	FAN5234MTCX	TSSOP-16	2	Current	300	24	87	1300	-10 to 85	1.73	1.40	1.12	.812

VOLTAGE COMPARATORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Offset Voltage (Max.) (mV)	Response Time (ns)	Supply Voltage (Max.) (V)	Supply Voltage (Min.) (V)	Supply Current (Max.) (µA)	Power Dissipation (Max.) (mW)	Operating Temperature (°C)	Price Each			
										1	10	100	1000
Single													
◆ 512-FAN156L6X	FAN156L6X	MicroPak-6	15	16.5	3	-3	17	194	-40 to 85	.41	.343	.209	.162
Dual													
◆ 512-FAN256L8X	FAN256L8X	MicroPak-8	15	13	3	-3	17	226	-40 to 85	.55	.465	.30	.24

SECONDARY SIDE SYNCHRONOUS RECTIFICATION (SR) CONTROLLERS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fairchild Part No.	Package	Number of Outputs	Control Mode	Supply Voltage (Max.) (V)	Rising Time (Max.) (ns)	Falling Time (Max.) (ns)	Operating Current (Typ.) (mA)	Operating Temperature (°C)	Price Each			
										1	10	100	1000
◆ 512-FAN6100HMPX	FAN6100HMPX	MLP-20	1	CV/CC	6	-	-	2.4	-40 to 125	1.11	.896	.688	.48
◆ 512-FAN6100MPX	FAN6100MPX	MLP-20	1	CV/CC	6	-	-	2.4	-40 to 125	1.11	.896	.688	.48
◆ 512-FAN6100QMPX	FAN6100QMPX	MLP-20	1	CV/CC	6	-	-	2.4	-40 to 125	1.11	.896	.688	.48
◆ 512-FAN6230AMPX	FAN6230AMPX	MLP-16	1	CV/CC	6	14	9	16	-40 to 125	1.08	.868	.667	.465
◆ 512-FAN6204MY	FAN6204MY	SOIC-8	1	CCM/DCM/QR	30	120	100	1.1	-40 to 105	1.22	.98	.753	.525