

移动解决方案

完善的移动解决方案，为设计师提供全面支持
帮您挑战极限，大幅缩短上市时间



Lighting Audio Switches USB RF Power Battery

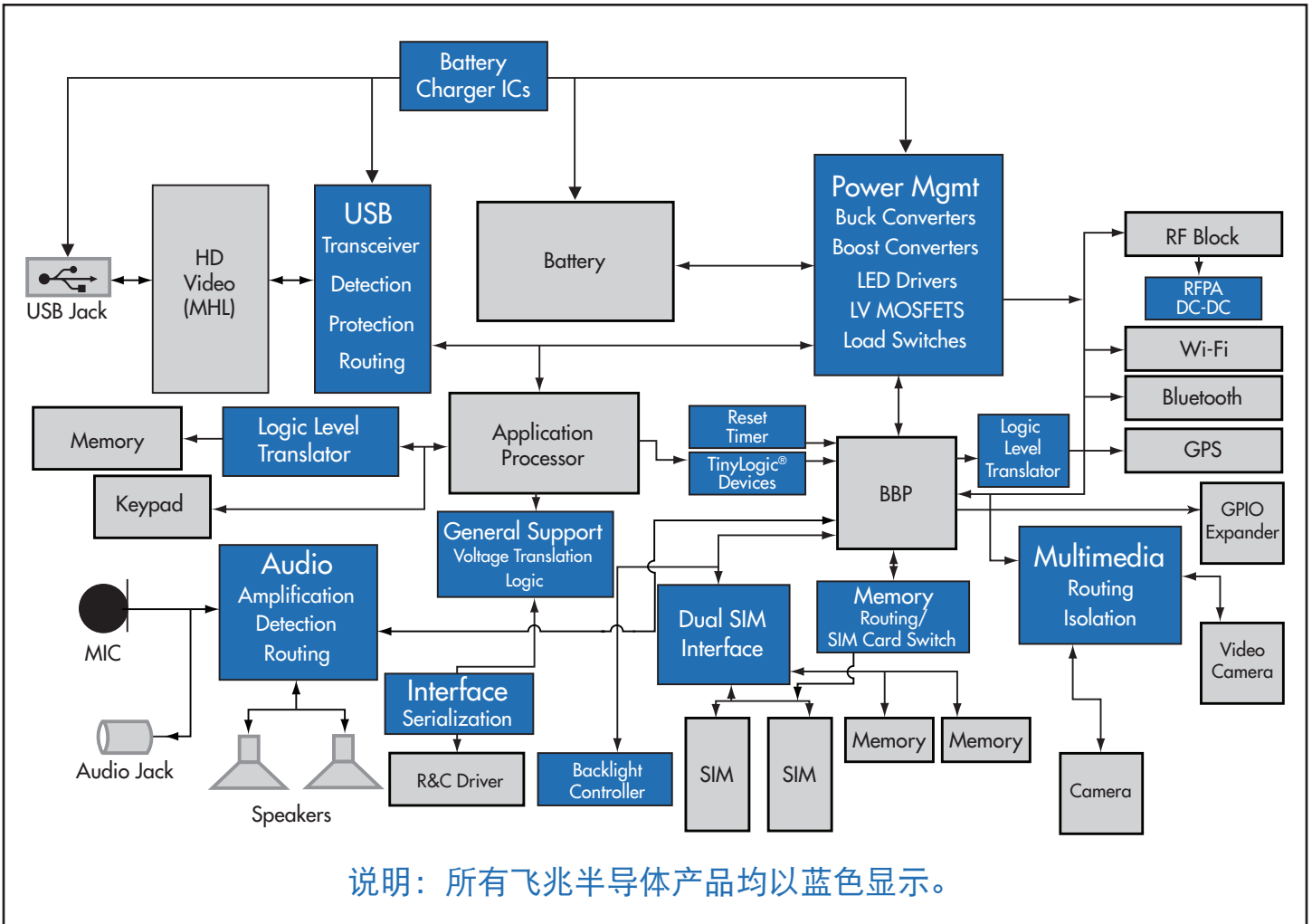
Core Power Video Logic MOSFETs

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在新的移动产品设计中，您对技术合作伙伴有何期待？

如果您和我们的其他客户一样，是业内知名的设计工程师、系统结构师和器件工程师，您追求目标一定是最高能效、最小封装以及通过最优化的用户体验让您的设计与众不同的集成电路。为满足您对工程和供应链的需求，同时满足您对缩短设计周期的期望，您需要一个非常值得信赖的技术合作伙伴。

如果这些正是您需要的，恭喜您来对了地方！通过同客户的紧密协作，我们的设计工程师已经开发出一系列增值器件，在不断改进加工工艺与封装技术的同时，一如既往地引入领先的模拟和功率 IP 技术。



说明：所有飞兆半导体产品均以蓝色显示。

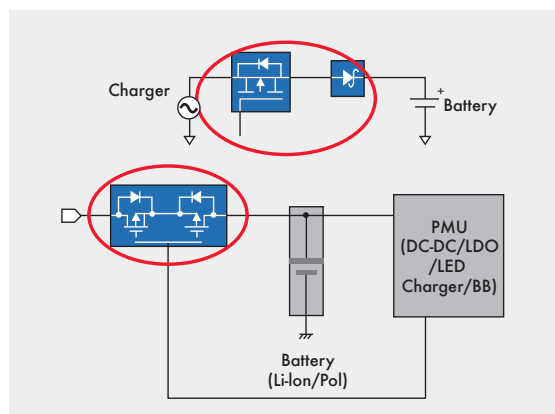
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说明：在框图中，所有飞兆半导体产品均以蓝色显示。

充电开关												
产品型号	极性	BV _{DSS} Min. (V)	Config.	R _{DS(ON)} Max. (Ω) @ V _{GS} =					Qg Typ. (nC) @ V _{GS} = 5V	I _D (A)	P _D (W)	封装
				10V	4.5V	2.5V	1.8V	1.5V				
FDZ191P	P	-20	Single	-	0.085	0.123	-	0.2	9	3	1.5	1.0x1.5 WL-CSP
FDZ391P	P	-20	Single	-	0.085	0.123	-	0.2	9	3	1.5	1.0x1.5 WL-CSP Thin
FDZ193P	P	-20	Single	-	0.09	0.13	-	-	7	3	1.5	1.0x1.5 WL-CSP
FDZ197PZ	P	-20	Single	-	0.064	0.071	0.079	0.095	18	3.8	1.9	1.0x1.5 WL-CSP
FDZ371PZ	P	-20	Single	-	0.075	0.09	0.11	0.15	12	3.7	1.7	1.0x1.0 WL-CSP Thin
FDMA291P	P	-20	Single	-	0.042	0.058	0.0968	-	10	6.6	2.4	MicroFET™ 2x2
FDMA507PZ	P	-20	Single	-	0.025	0.035	0.045	-	30	7.8	2.4	MicroFET 2x2
FDMA510PZ	P	-20	Single	-	0.03	0.037	0.05	0.09	19	7.8	2.4	MicroFET 2x2
FDMA520PZ	P	-20	Single	-	0.03	0.053	-	-	14	7.3	2.4	MicroFET 2x2
FDMA530PZ	P	-30	Single	0.035	0.065	-	-	-	16	6.8	2.4	MicroFET 2x2
FDMA1023PZ	P	-20	Dual	-	0.072	0.095	0.13	0.195	8.6	3.7	1.5	MicroFET 2x2
FDMA1025P	P	-20	Dual	-	0.155	0.22	-	-	3.4	3.1	1.4	MicroFET 2x2
FDMA1027P	P	-20	Dual	-	0.12	0.16	0.24	-	4	2.2	1.4	MicroFET 2x2
FDMA1029PZ	P	-20	Dual	-	0.06	0.088	-	-	7	3.1	1.4	MicroFET 2x2
FDMA6023PZT	P	-20	Dual	-	0.06	0.08	0.11	0.17	12	3.6	1.4	MicroFET 2x2 Thin
FDMB668P	P	-20	Single	-	0.035	0.05	0.07	-	42	6.1	1.9	MicroFET 3x1.9
FDME510PZT	P	-20	Single	-	0.037	0.05	0.065	0.1	16	5	1.4	MicroFET 1.6x1.6 Thin
FDC6506P	P	-30	Dual	0.17	0.28	-	-	-	2.3	1.8	0.96	SSOT-6

说明：关于完整的 Qg 测试条件，参见具体器件说明书。

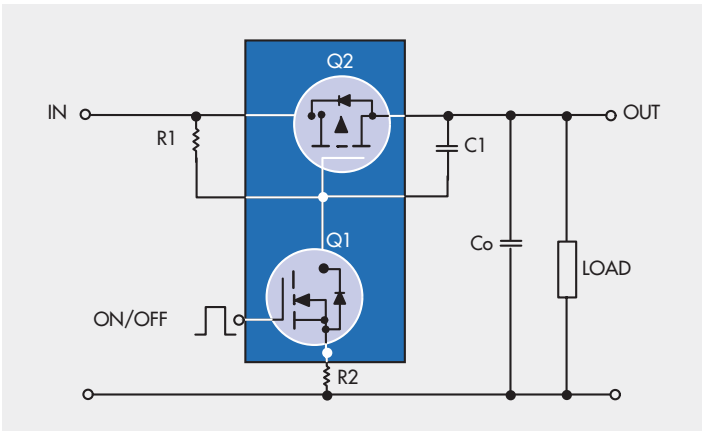


充电器应用：MOSFET 用作电流源

集成肖特基二极管的充电开关													
产品型号	V _{DS} (V)	I _D (A)	R _{DS(ON)} Max. (Ω) @ V _{GS} =					Qg		肖特基二极管		P _D (W)	封装
			10V	4.5V	2.5V	1.8V	1.5V	(nC)	@ V _{GS} (V)	V _F (V)	@ I _F (A)		
FDFMA2P029Z	-20	3.1	-	0.095	0.141	-	-	7	4.5	0.37	0.5	1.4	MicroFET 2x2
FDFMA2P857	-20	2.2	-	0.12	0.16	0.24	-	4	4.5	0.4	0.1	1.4	MicroFET 2x2
FDFMA2P853	-20	2.2	-	0.12	0.16	0.24	-	4	4.5	0.46	0.5	1.4	MicroFET 2x2
FDFMA2P853T	-20	3	-	0.12	0.16	0.24	-	4	4.5	0.46	0.5	1.4	MicroFET 2x2 Thin
FDFMA2P859T	-20	3	-	0.12	0.16	0.24	-	4	4.5	0.41	0.1	1.4	MicroFET 2x2 Thin
FDFME2P823ZT	-20	2.6	-	0.142	0.213	0.331	0.53	5.5	4.5	0.48	0.5	1.4	MicroFET 1.6x1.6 Thin

功率/负载开关												
产品型号	极性	BV _{DSS} Min. (V)	Config.	R _{DS(ON)} Max. (Ω) @ V _{GS} =					Qg Typ. (nC) @ V _{GS} =5V	I _D (A)	P _D (W)	封装
				10V	4.5V	2.5V	1.8V	1.5V				
FDZ191P	P	-20	Single	-	0.085	0.123	-	0.2	9	3	1.5	1.0x1.5 WL-CSP
FDZ193P	P	-20	Single	-	0.09	0.13	-	-	7	3	1.5	1.0x1.5 WL-CSP
FDZ391P	P	-20	Single	-	0.085	0.123	-	0.2	9	3	1.5	1.0x1.5 WL-CSP Thin
FDZ197PZ	P	-20	Single	-	0.064	0.071	0.079	0.095	18	3.8	1.9	1.0x1.5 WL-CSP
FDZ371PZ	P	-20	Single	-	0.075	0.09	0.11	0.15	12	3.7	1.7	1.0x1.0 WL-CSP Thin
FDMA291P	P	-20	Single	-	0.042	0.058	0.0968	-	10	6.6	2.4	MicroFET™ 2x2
FDMA410NZ	N	20	Single	-	0.023	0.029	0.036	0.05	10	9.5	2.4	MicroFET 2x2
FDMA420NZ	N	20	Single	-	0.03	0.04	-	-	8.8	5.7	2.4	MicroFET 2x2
FDMA430NZ	N	30	Single	-	0.04	0.05	-	-	7.3	5	2.4	MicroFET 2x2
FDMA507PZ	P	-20	Single	-	0.025	0.035	0.045	-	30	7.8	2.4	MicroFET 2x2
FDMA510PZ	P	-20	Single	-	0.03	0.037	0.05	0.09	19	7.8	2.4	MicroFET 2x2
FDMA520PZ	P	-20	Single	-	0.03	0.053	-	-	14	7.3	2.4	MicroFET 2x2
FDMA530PZ	P	-30	Single	0.035	0.065	-	-	-	16	6.8	2.4	MicroFET 2x2
FDMA1023PZ	P	-20	Dual	-	0.072	0.095	0.13	0.195	8.6	3.7	1.5	MicroFET 2x2
FDMA1024NZ	N	-20	Dual	-	0.054	0.066	0.082	0.114	5.2	5	1.4	MicroFET 2x2
FDMA1025P	P	-20	Dual	-	0.155	0.22	-	-	3.4	3.1	1.4	MicroFET 2x2
FDMA1027P	P	-20	Dual	-	0.12	0.16	0.24	-	4	2.2	1.4	MicroFET 2x2
FDMA1028NZ	N	20	Dual	-	0.037	0.05	-	-	4	3.7	1.4	MicroFET 2x2
FDMA1029PZ	P	-20	Dual	-	0.06	0.088	-	-	7	3.1	1.4	MicroFET 2x2
FDMA2002NZ	N	30	Dual	-	0.123	0.163	-	-	2.4	2.9	1.5	MicroFET 2x2
FDMA3028N	N	30	Dual	-	0.068	0.088	0.123	-	3.7	3.8	1.5	MicroFET 2x2
FDMA6023PZT	P	-20	Dual	-	0.06	0.08	0.11	0.17	12	3.6	1.4	MicroFET 2x2 Thin
FDMB3800N	N	30	Dual	0.04	0.051	-	-	-	4	4.8	1.6	MicroFET 3x1.9
FDMB668P	P	-20	Single	-	0.035	0.05	0.07	-	42	6.1	1.9	MicroFET 3x1.9
FDME410NZT	N	20	Single	-	0.026	0.031	0.039	0.053	9.2	7	1.4	MicroFET 1.6x1.6 Thin
FDME510PZT	P	-20	Single	-	0.037	0.05	0.065	0.1	16	5	1.4	MicroFET 1.6x1.6 Thin
FDME1023PZT	P	-20	Dual	-	0.142	0.213	0.331	0.53	5.5	2.6	1.4	MicroFET 1.6x1.6 Thin
FDME1024NZT	N	20	Dual	-	0.066	0.086	0.113	0.16	3	3.8	1.4	MicroFET 1.6x1.6 Thin
FDC655BN	N	30	Single	0.025	0.033	-	-	-	6	6.3	1.6	SSOT-6
FDC653N	N	30	Single	0.035	0.055	-	-	-	12	5	1.6	SSOT-6
FDC637AN	N	20	Single	-	0.024	0.032	-	-	10.5	6.2	1.6	SSOT-6
FDC633N	N	30	Single	-	0.042	0.054	-	-	11	5.2	1.6	SSOT-6
FDC658AP	P	-30	Single	0.05	0.075	-	-	-	6	4	1.6	SSOT-6
FDC654P	P	-30	Single	0.075	0.125	-	-	-	6.2	3.6	1.6	SSOT-6
FDC642P	P	-20	Single	-	0.065	0.1	-	-	7.2	4	1.6	SSOT-6
FDC640P	P	-20	Single	-	0.053	0.08	-	-	9	4.5	1.6	SSOT-6
FDC638P	P	-20	Single	-	0.048	0.065	-	-	10	4.5	1.6	SSOT-6
FDC638APZ	P	-20	Single	-	0.043	0.068	-	-	8	4.5	1.6	SSOT-6
FDC636P	P	-20	Single	-	0.13	0.18	-	-	6	2.8	1.6	SSOT-6
FDC634P	P	-20	Single	-	0.08	0.11	-	-	7.2	3.5	1.6	SSOT-6
FDC610PZ	P	-30	Single	0.042	0.075	-	-	-	9	4.9	1.6	SSOT-6
FDC608PZ	P	-20	Single	-	0.03	0.043	-	-	17	5.8	1.6	SSOT-6
FDC606P	P	-12	Single	-	0.026	0.035	0.053	-	18	6	1.6	SSOT-6
FDC604P	P	-20	Single	-	0.033	0.043	0.06	-	19	5.5	1.6	SSOT-6
FDC602P	P	-20	Single	-	0.035	0.05	-	-	14	5.5	1.6	SSOT-6

说明：关于完整的 Q_{G(TON)} 测试条件，参见具体器件说明书。

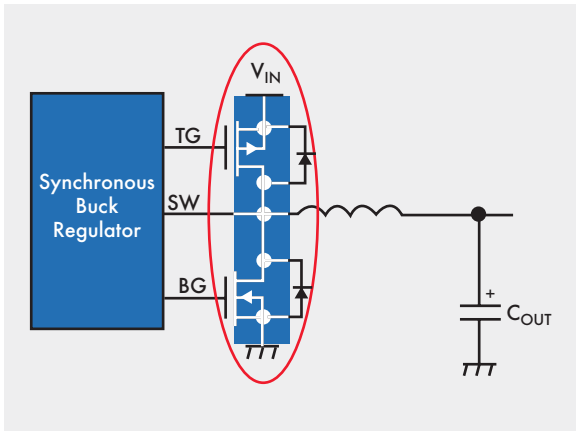


集成负载开关

电平转换的集成负载开关

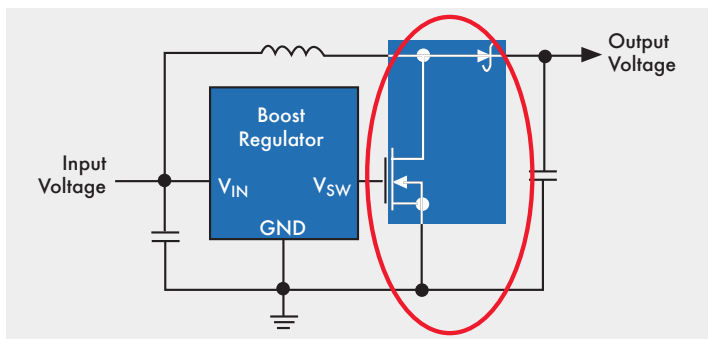
产品型号	V_{IN} Max. (V)	V_{GS} Max. (V)	$R_{DS(ON)}$ Max. (Ω) @ $V_{GS} =$						封装
			12V	4.5V	3.3V	2.5V	1.8V	1.5V	
FDG6323L	8	8	-	0.55	-	0.75	-	-	SC70
FDG6331L	8	8	-	0.26	-	0.33	0.45	-	SC70
FDG6342L	8	8	-	0.15	-	0.195	0.28	0.48	SC70
FDG6324L	20	8	0.55	0.75	-	-	-	-	SC70
FDC6323L	8	8	-	0.2	0.3	-	-	-	SSOT-6
FDC6325L	8	8	-	0.13	-	0.18	-	-	SSOT-6
FDC6329L	8	8	-	0.07	-	0.105	-	-	SSOT-6
FDC6331L	8	8	-	0.055	-	0.07	0.1	-	SSOT-6
FDC6324L	20	20	0.2	0.3	-	-	-	-	SSOT-6
FDC6326L	20	20	0.125	0.2	-	-	-	-	SSOT-6
FDC6330L	20	20	0.08	0.125	-	-	-	-	SSOT-6
FDY6342L	8	8	-	0.5	-	0.7	1.2	1.8	SC-89

DC-DC 开关



DC-DC 开关应用

DC-DC 开关											
产品型号	极性	BV _{DSS} Min. (V)	配置	R _{DS(ON)} Max. (Ω) @ V _{GS} =				Qg Typ. (nC) @ V _{GS} =5V	I _b (A)	P _D (W)	封装
				10V	4.5V	2.5V	1.8V				
FDMA1032CZ	N P	20 -20	补充	-	0.037 .06	0.05 .088	-	4 7	3.7	1.4	MicroFET™ 2x2
FDME1034CZT	N P	20 -20	补充	-	.066 .142	.086 .213	.113 .331	3 5.5	3.8	1.4	MicroFET 1.6x1.6 Thin
FDG6320C	N P	25 -25	补充	-	4 10	5@2.7 1 3@2.7	-	0.29 .22	0.22 .14	0.3	SC70-6
FDG6321C	N P	25 -25	补充	-	0.45 1.1	0.6@2.7 1 0.5@2.7	-	1.64 1.1	0.5 .41	0.3	SC70-6
FDG6322C	N P	25 -25	补充	-	4 1.1	5@2.7 1 0.5@2.7	-	0.29 1.1	0.22 .41	0.3	SC70-6
FDG6332C	N P	20 -20	补充	-	0.3 .42	0.4 .63	-	1.1 1.4	0.7 .6	0.3	SC70-6
FDY4000CZ	N P	20 -20	补充	-	0.7 1.2	0.85 1.6	1.25 2.7	0.8 1	0.6 .35	625	SC-89
FDC6320C	N P	25 -25	补充	-	4 10	5@2.7 1 3@2.7	-	0.29 .23	0.22 .12	0.9	SSOT-6
FDC6321C	N P	25 -25	补充	-	0.45 1.1	-	-	1.64 1.1	0.68 .46	0.9	SSOT-6
FDC6322C	N P	25 -25	补充	-	4 1.1	5@2.7 1 0.5@2.7	-	0.49 1	0.22 .46	0.9	SSOT-6
FDC6327C	N P	20 -20	补充	-	0.08 .17	0.12 .25	-	3.25 2.85	2.7 1.9	0.96	SSOT-6
FDC6420C	N P	20 -20	补充	-	0.07 .125	0.095 .19	-	3.3 3.7	3 2.2	0.96	SSOT-6



典型的 Boost 应用

Boost 开关												
产品型号	V_{DS} (V)	I_D (A)	$R_{DS(ON)}$ Max. (Ω) @ $V_{GS} =$			Qg		肖特基二极管		P_D (W)	封装	
			10V	4.5V	2.5V	(nC)	@ V_{GS} (V)	V_F (V)	@ I_F (A)			
FDMA2N028Z	20	3.7	-	0.068	0.086	4	4.5	0.37	1	1.4	MicroFET™ 2x2	
FDMA3N109	30	2.9	-	0.123	0.163	2.4	4.5	0.5	1	1.5	MicroFET 2x2	
FDME3N311ZT	30	1.6	-	0.299	0.41	1	4.5	0.47	1	1.1	MicroFET 1.6x1.6 Thin	
FDZ3N513ZT	30	1.1	-	0.462	-	1	4.5	1.2	0.3	1	1.0x1.0 WL-CSP Thin	

杂项开关												
产品型号	极性	BV_{DSS} Min. (V)	Config.	$R_{DS(ON)}$ Max. (Ω) @ $V_{GS} =$					Qg Typ. (nC) @ $V_{GS} = 5V$	I_D (A)	P_D (W)	封装
				10V	4.5V	2.5V	1.8V	1.5V				
FDG1024NZ	N	20	Dual	-	0.175	0.215	0.27	0.389	1.8	1.2	0.36	SC70-6
FDG8850NZ	N	30	Dual	-	0.4	0.5@2.7	-	-	1.03	0.75	0.36	SC70-6
FDG6335N	N	20	Dual	-	0.3	0.4	-	-	1.1	0.7	0.3	SC70-6
FDG6317NZ	N	20	Dual	-	0.4	0.55	-	-	0.76	0.7	0.3	SC70-6
FDG6313N	N	25	Dual	-	0.45	0.6@2.7	-	-	1.64	0.5	0.3	SC70-6
FDG6303N	N	25	Dual	-	0.45	0.6@2.7	-	-	1.64	0.5	0.3	SC70-6
FDG6301N	N	25	Dual	-	4	5@2.7	-	-	0.29	0.22	0.3	SC70-6
FDG6318PZ	P	-20	Dual	-	0.78	1.2	-	-	1.08	0.5	0.3	SC70-6
FDG6318P	P	-20	Dual	-	0.78	1.2	-	-	0.86	0.5	0.3	SC70-6
FDG6316P	P	-12	Dual	-	0.27	0.36	0.65	-	1.7	0.7	0.3	SC70-6
FDG6308P	P	-20	Dual	-	0.4	0.55	0.8	-	1.8	0.6	0.3	SC70-6
FDG6306P	P	-20	Dual	-	0.42	0.63	-	-	1.4	0.6	0.3	SC70-6
FDG6304P	P	-25	Dual	-	1.1	1.5@2.7	-	-	1.1	0.41	0.3	SC70-6
FDG6302P	P	-25	Dual	-	10	13@2.7	-	-	0.22	0.14	0.3	SC70-6
FDG410NZ	N	20	Single	-	0.07	0.077	0.087	0.115	5.1	2.2	0.42	SC70-6
FDG315N	N	30	Single	0.12	0.16	-	-	-	2.1	2	0.75	SC70-6
FDG313N	N	25	Single	-	0.45	0.6@2.7	-	-	1.64	0.95	0.75	SC70-6
FDG311N	N	20	Single	-	0.115	0.15	-	-	3	1.9	0.75	SC70-6
FDG329N	N	20	Single	-	0.09	0.115	-	-	3.3	1.5	0.42	SC70-6
FDG327NZ	N	20	Single	-	0.09	0.1	0.14	-	4.2	1.5	0.42	SC70-6
FDG327N	N	20	Single	-	0.09	0.1	0.14	-	4.5	1.5	0.42	SC70-6
FDG332PZ	P	-20	Single	-	0.095	0.115	0.16	0.33	7.6	2.6	0.75	SC70-6
FDG330P	P	-12	Single	-	0.11	0.15	0.215	-	5	2	0.75	SC70-6
FDG328P	P	-20	Single	-	0.145	0.21	-	-	3.7	1.5	0.75	SC70-6
FDG326P	P	-20	Single	-	0.14	0.18	0.25	-	4.4	1.5	0.75	SC70-6
FDG316P	P	-30	Single	0.19	0.3	-	-	-	3.5	1.6	0.75	SC70-6
FDG314P	P	-25	Single	-	1.1	1.5@2.7	-	-	1.1	0.65	0.75	SC70-6

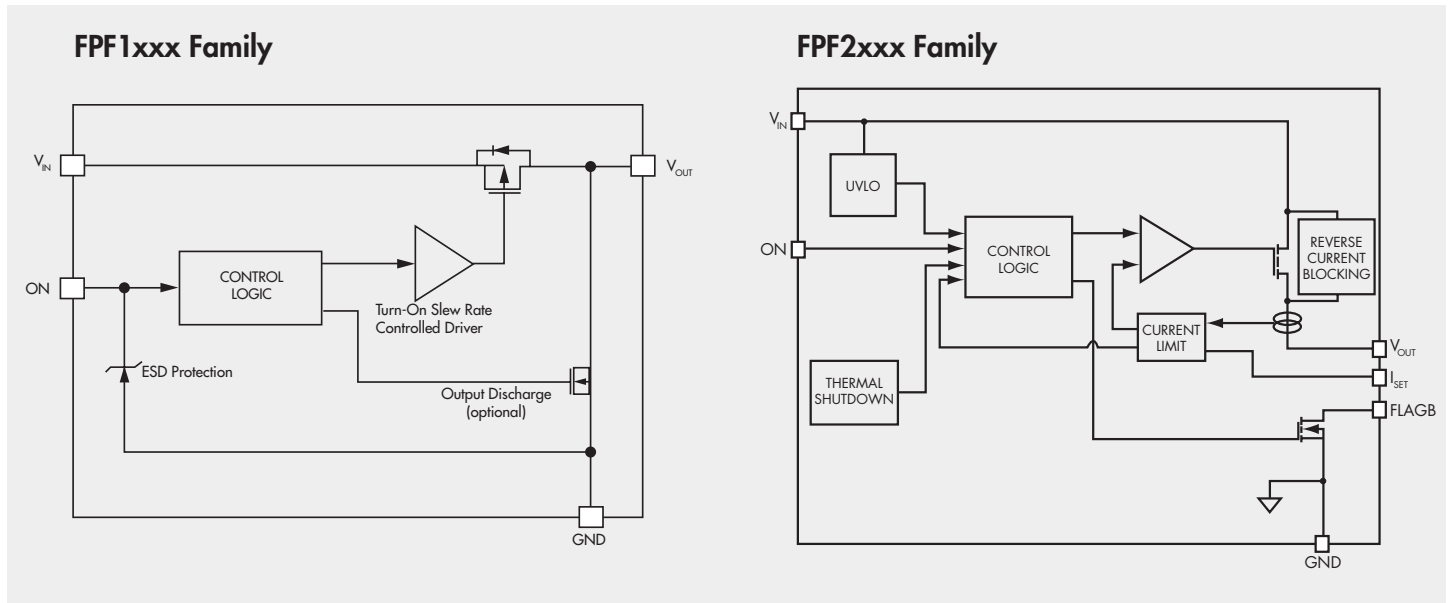
说明：关于完整的 $Q_{G(TOT)}$ 测试条件，参见具体器件说明书。

杂项开关 (续)												
产品型号	极性	BV _{DSS} Min. (V)	Config.	R _{DS(ON)} Max. (Ω) @ V _{GS} =					Qg Typ. (nC) @ V _{GS} =5V	I _b (A)	P _D (W)	封装
				10V	4.5V	2.5V	1.8V	1.5V				
FDG312P	P	-20	Single	-	0.18	0.25	-	-	3.3	1.2	0.75	SC70-6
FDY3001NZ	N	20	Dual	-	5	7	9	-	0.8	0.2	0.63	SC-89
FDY3000NZ	N	20	Dual	-	0.7	0.85	1.25	-	0.8	0.6	0.63	SC-89
FDY2001PZ	P	-20	Dual	-	8	12	15	-	1	0.15	0.63	SC-89
FDY2000PZ	P	-20	Dual	-	1.2	1.6	2.7	-	1	0.35	0.63	SC-89
FDY301NZ	N	20	Single	-	5	7	9	-	0.8	0.2	0.63	SC-89
FDY300NZ	N	20	Single	-	0.7	0.85	1.25	-	0.8	0.6	0.63	SC-89
FDY101PZ	P	-20	Single	-	8	12	15	-	1	0.15	0.63	SC-89
FDY100PZ	P	-20	Single	-	1.2	1.6	2.7	-	1	0.35	0.63	SC-89
FDY102PZ	P	-20	Single	-	0.5	0.7	1.2	1.8	2.2	0.83	0.63	SC-89
FDY1002PZ	P	-20	Dual	-	0.5	0.7	1.2	1.8	2.2	0.83	0.63	SC-89
FDV305N	N	20	Single	-	0.22	0.3	-	-	1.1	0.9	0.35	SOT-23
FDV303N	N	25	Single	-	0.45	0.6@2.7	-	-	1.64	0.68	0.35	SOT-23
FDV301N	N	25	Single	-	4	5@2.7	-	-	0.49	0.22	0.35	SOT-23
FDV304P	P	-25	Single	-	1.1	1.5@2.7	-	-	1.1	0.46	0.35	SOT-23
FDV302P	P	-25	Single	-	10	13@2.7	-	-	0.22	0.12	0.35	SOT-23
FDC6401N	N	20	Dual	-	0.07	0.095	-	-	3.3	3	0.96	SSOT-6
FDC6561AN	N	30	Dual	0.095	0.145	-	-	-	2.1	2.5	0.9	SSOT-6
FDC6305N	N	20	Dual	-	0.08	0.12	-	-	3.5	2.7	0.9	SSOT-6
FDC6303N	N	25	Dual	-	0.45	0.6@2.7	-	-	1.64	0.68	0.9	SSOT-6
FDC6301N	N	25	Dual	-	4	5@2.7	-	-	0.49	0.22	0.9	SSOT-6
FDC6506P	P	-30	Dual	0.17	0.28	-	-	-	2.3	1.8	0.96	SSOT-6
FDC6318P	P	-12	Dual	-	0.09	0.125	0.2	-	5.4	2.5	0.96	SSOT-6
FDC6312P	P	-20	Dual	-	0.115	0.155	0.225	-	4.4	2.3	0.96	SSOT-6
FDC6310P	P	-20	Dual	-	0.125	0.19	-	-	3.7	2.2	0.96	SSOT-6
FDC6306P	P	-20	Dual	-	0.17	0.25	-	-	3	1.9	0.96	SSOT-6
FDC6304P	P	-25	Dual	-	1.1	1.5@2.7	-	-	1.1	0.46	0.9	SSOT-6
FDC6302P	P	-25	Dual	-	10	13@2.7	-	-	0.22	0.12	0.9	SSOT-6
FDN361BN	N	30	Single	0.11	0.16	-	-	-	1.3	1.4	0.5	SSOT-3
FDN359BN	N	30	Single	0.046	0.06	-	-	-	5	2.7	0.5	SSOT-3
FDN357N	N	30	Single	0.06	0.09	-	-	-	4.2	1.9	0.5	SSOT-3
FDN339AN	N	20	Single	-	0.035	0.05	-	-	7	3	0.5	SSOT-3
FDN337N	N	30	Single	-	0.065	0.082	-	-	7	2.2	0.5	SSOT-3
FDN335N	N	20	Single	-	0.07	0.1	-	-	3.5	1.7	0.5	SSOT-3
FDN327N	N	20	Single	-	0.07	0.08	0.12	-	4.5	2	0.5	SSOT-3
FDN360P	P	-30	Single	0.08	0.125	-	-	-	6.2	2	0.5	SSOT-3
FDN358P	P	-30	Single	0.125	0.2	-	-	-	4	1.5	0.5	SSOT-3
FDN352AP	P	-30	Single	0.18	0.3	-	-	-	1.4	1.3	0.5	SSOT-3
FDN342P	P	-20	Single	-	0.08	0.13	-	-	6.3	2	0.5	SSOT-3
FDN340P	P	-20	Single	-	0.07	0.11	-	-	7.2	2	0.5	SSOT-3
FDN338P	P	-20	Single	-	0.115	0.155	-	-	4.4	1.6	0.5	SSOT-3
FDN336P	P	-20	Single	-	0.2	0.27	-	-	3.6	1.2	0.5	SSOT-3
FDN308P	P	-20	Single	-	0.125	0.19	-	-	3.8	1.5	0.5	SSOT-3
FDN306P	P	-12	Single	-	0.04	0.05	0.08	-	12	2.6	0.5	SSOT-3
FDN304PZ	P	-20	Single	-	0.052	0.07	0.1	-	12	2.4	0.5	SSOT-3
FDN304P	P	-20	Single	-	0.052	0.07	0.1	-	12	2.4	0.5	SSOT-3
FDN302P	P	-20	Single	-	0.055	0.08	-	-	9	2.4	0.5	SSOT-3

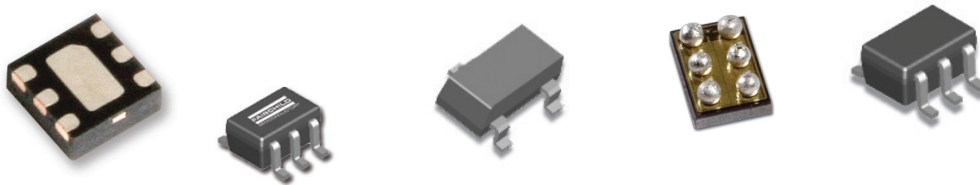
说明: 关于完整的 Q_{G(TON)} 测试条件, 参见具体器件说明书。

飞兆半导体 IntelliMAX 系列产品为集成负载开关, 适用于最新的移动和消费电子设备。IntelliMAX 系列将保护、控制和故障监控功能与传统 MOSFET 性能进行整合, 达到增强电源管理设计的目的。这种整合有助于设计人员实现系统的高效率和高可靠性, 同时降低对电路板空间的要求。

IntelliMAX



典型框图。关于具体功能与 I/O 信息, 参阅相关数据表。



固定电流限制																
			功能设置													
产品型号	Config.	R _{on} Typ. (mΩ)	Min. (V)	Max. (V)	SR Time (μs)	电流限制		电流封锁	故障操作			反向 电流 封锁	P _{GOOD}	输出放电	On 管脚操作	封装
						Min. (mA)	Max. (mA)		自动 重启	TSD	恒流					
FPF2000	Single	700	1.8	5.5	10	50	-	•	•	-	-	-	-	-	Hi	SC-70
FPF2001	Single	700	1.8	5.5	10	50	-	•	•	-	-	-	-	-	Lo	SC-70
FPF2002	Single	700	1.8	5.5	10	50	-	•	-	•	-	-	-	-	Hi	SC-70
FPF2003	Single	700	1.8	5.5	-	50	-	-	-	-	•	-	-	-	Hi	SC-70
FPF2004	Single	700	1.8	5.5	10	100	-	•	•	-	-	-	-	-	Hi	SC-70
FPF2005	Single	700	1.8	5.5	10	100	-	•	•	-	-	-	-	-	Lo	SC-70
FPF2006	Single	700	1.8	5.5	10	100	-	•	-	•	-	-	-	-	Hi	SC-70
FPF2007	Single	700	1.8	5.5	-	100	-	-	-	-	•	-	-	-	Hi	SC-70
FPF2100	Single	125	1.8	5.5	12	200	-	•	•	-	-	-	-	-	Hi	SOT-23
FPF2101	Single	125	1.8	5.5	12	200	-	•	•	-	-	-	-	-	Lo	SOT-23
FPF2102	Single	125	1.8	5.5	12	200	-	•	-	•	•	-	-	-	Hi	SOT-23
FPF2103	Single	125	1.8	5.5	-	200	-	-	-	-	-	-	-	-	Hi	SOT-23
FPF2104	Single	125	1.8	5.5	12	400	-	•	•	-	-	-	-	-	Hi	SOT-23
FPF2105	Single	125	1.8	5.5	12	400	-	•	•	-	-	-	-	-	Lo	SOT-23
FPF2106	Single	125	1.8	5.5	12	400	-	•	-	•	•	-	-	-	Hi	SOT-23
FPF2107	Single	125	1.8	5.5	-	400	-	-	-	-	-	-	-	-	Hi	SOT-23
FPF2108	Single	125	1.8	5.5	12	400	-	•	-	•	•	•	-	-	Lo	SOT-23
FPF2109	Single	125	1.8	5.5	-	200	-	-	-	-	-	•	-	-	Hi	SOT-23
FPF2110	Single	125	1.8	5.5	-	400	-	-	-	-	-	•	-	-	Hi	SOT-23
FPF2116	Single	125	1.8	5.5	12	200	-	•	•	-	-	•	-	-	Hi	SOT-23
FPF2142	Single	110	1.8	5.5	-	200	-	•	-	•	-	•	•	-	Hi	MLP 2x2
FPF2143	Single	110	1.8	5.5	-	200	-	-	-	-	•	•	•	-	Hi	MLP 2x2
FPF2146	Single	110	1.8	5.5	-	400	-	•	-	•	-	•	•	•	Hi	MLP 2x2
FPF2147	Single	110	1.8	5.5	-	400	-	-	-	-	•	•	•	-	Hi	MLP 2x2
FPF2200	Single	140	1.8	5.5	40	500	-	•	•	-	-	•	-	•	Hi	MLP 2x2
FPF2201	Single	140	1.8	5.5	40	500	-	•	-	•	-	•	-	•	Hi	MLP 2x2
FPF2202	Single	140	1.8	5.5	40	500	-	-	-	-	•	•	-	•	Hi	MLP 2x2
FPF2024	Single	210	1.6	5.5	30	100	-	•	•	-	-	-	-	-	Hi	WL-CSP 1x1.5
FPF2025	Single	210	1.6	5.5	30	100	-	•	•	-	-	-	-	-	Lo	WL-CSP 1x1.5
FPF2026	Single	210	1.6	5.5	30	100	-	•	-	•	-	-	-	-	Hi	WL-CSP 1x1.5
FPF2027	Single	210	1.6	5.5	30	100	-	-	-	-	•	-	-	-	Hi	WL-CSP 1x1.5
FPF2172	Single	125	1.8	5.5	13	200	-	•	-	•	-	•	-	-	Hi	MLP 3x3 6L
FPF2174	Single	125	1.8	5.5	14	200	-	•	-	•	-	•	-	-	Hi	MLP 3x3 6L
FPF2300MX	Dual	75	1.8	5.5	-	1100	-	•	•	-	-	•	-	-	Hi	SO8 - 8L
FPF2302MX	Dual	75	1.8	5.5	-	1100	-	•	-	•	-	•	-	•	Hi	SO8 - 8L
FPF2303MX	Dual	75	1.8	5.5	-	1100	-	-	-	-	•	•	-	•	Hi	SO8 - 8L
FPF2300MPX	Dual	75	1.8	5.5	-	1100	-	•	•	-	-	•	-	•	Hi	MLP 3x3 8L
FPF2302MPX	Dual	75	1.8	5.5	-	1100	-	•	-	•	-	•	-	•	Hi	MLP 3x3 8L
FPF2303MPX	Dual	75	1.8	5.5	-	1100	-	-	-	-	•	•	-	•	Hi	MLP 3x3 8L
FPF2310MPX	Dual	75	1.8	5.5	-	450	-	•	•	-	-	•	-	•	Hi	MLP 3x3 8L
FPF2312MPX	Dual	75	1.8	5.5	-	450	-	•	-	•	-	•	-	•	Hi	MLP 3x3 8L
FPF2313MPX	Dual	75	1.8	5.5	-	450	-	-	-	-	•	•	-	•	Hi	MLP 3x3 8L
FPF2313LMPX	Dual	75	1.8	5.5	-	450	-	-	-	-	•	•	-	•	Lo	MLP 3x3 8L

附加功能: SR, 欠压闭锁, 热关断, 故障标志和过电流保护

用户可调电流限制															
产品型号	Config.	功能设置											输出放电	On 管脚操作	封装
		R _{ON} Typ. (mΩ)	Min. (V)	Max.(V)	SR Time (μS)	电流限制		电流封锁	故障操作			反向电流封锁			
						Min. (mA)	Max. (mA)		自动重启	关断	恒流				
FPF2123	Single	125	1.8	5.5	-	150	1500	•	•	-	-	•	-	Hi	SOT-23 5L
FPF2124	Single	125	1.8	5.5	-	150	1500	•	-	•	-	•	-	Hi	SOT-23 5L
FPF2125	Single	125	1.8	5.5	-	150	1500	•	-	-	-	•	-	Hi	SOT-23 5L
FPF2163	Single	120	1.8	5.5	-	150	1500	•	•	-	-	•	-	Hi	MLP 2x2 6L
FPF2164	Single	120	1.8	5.5	-	150	1500	•	-	•	-	•	-	Hi	MLP 2x2 6L
FPF2165	Single	120	1.8	5.5	-	150	1500	-	-	-	•	•	-	Hi	MLP 2x2 6L
FPF2193	Single	75	1.8	5.5	-	150	1500	•	•	-	-	•	-	Hi	WL-CSP 1x1.5
FPF2194	Single	75	1.8	5.5	-	150	1500	•	-	•	-	•	-	Hi	WL-CSP 1x1.5
FPF2195	Single	75	1.8	5.5	-	150	1500	-	-	-	•	•	-	Hi	WL-CSP 1x1.5
FPF2213	Single	250	1.8	5.5	40	100	250	•	•	-	-	•	•	Hi	MLP 2x2 6L
FPF2214	Single	250	1.8	5.5	40	100	250	•	-	•	-	•	•	Hi	MLP 2x2 6L
FPF2215	Single	250	1.8	5.5	40	100	250	-	-	-	•	•	•	Hi	MLP 2x2 6L
FPF2223	Single	140	1.8	5.5	40	250	650	•	•	-	-	•	•	Hi	MLP 2x2 6L
FPF2224	Single	140	1.8	5.5	40	250	650	•	-	•	-	•	•	Hi	MLP 2x2 6L
FPF2225	Single	140	1.8	5.5	40	250	650	-	-	-	•	•	•	Hi	MLP 2x2 6L

附加功能: SR, 欠压闭锁, 热关断, 故障标志和过电流保护

斜率控制											
产品型号	配置	功能设置						输出放电	On 管脚操作	封装	
		R _{ON} Typ.(mΩ)	Min.(V)	Max(V)	SR	SR Time (μS)	反向电流封锁				
FPF1003A	Single	20	1.2	5.5	•	10	-	-	Hi	WL-CSP 1x1.5	
FPF1004	Single	20	1.2	5.5	•	10	-	•	Hi	WL-CSP 1x1.5	
FPF1005	Single	50	1.2	5.5	•	10	-	-	Hi	MLP 2x2 6L	
FPF1006	Single	50	1.2	5.5	•	10	-	•	Hi	MLP 2x2 6L	
FPF1007	Single	30	1.2	5.5	•	10	-	•	Hi	MLP 2x2 6L	
FPF1008	Single	30	1.2	5.5	•	80	-	•	Hi	MLP 2x2 6L	
FPF1009	Single	30	1.2	5.5	•	1000	-	•	Hi	MLP 2x2 6L	
FPF1013	Single	17	0.8	2.5	•	30	•	-	Hi	WL-CSP 1x1.5	
FPF1014	Single	17	0.8	2.5	•	30	•	•	Hi	WL-CSP 1x1.5	
FPF1015	Single	35	0.8	2.5	•	30	•	-	Hi	Thin 2x2 MLP	
FPF1016	Single	35	0.8	2.5	•	30	•	•	Hi	Thin 2x2 MLP	
FPF1017	Single	35	0.8	2.5	•	150	•	-	Hi	Thin 2x2 MLPL	
FPF1018	Single	35	0.8	2.5	•	150	•	•	Hi	Thin 2x2 MLP	
FPF1038UCX	Single	20	1.2	5.5	•	2700	-	-	Hi	WL-CSP 1x1.5	
FPF1039UCX	Single	20	1.2	5.5	•	2700	-	-	Hi	WL-CSP 1x1.5	
FPF1103	Single	55	1.2	4	•	65	-	-	Hi	WL-CSP 1x1	
FPF1104	Single	55	1.2	4	•	65	-	•	Hi	WL-CSP 1x1	
FPF1107	Single	55	1.2	4	•	130	-	-	Hi	WL-CSP 1x1	
FPF1108	Single	55	1.2	4	•	130	-	•	Hi	WL-CSP 1x1	
FPF1203	Single	55	1.2	5.5	•	100	-	•	Hi	CSP 0.76x0.76	
FPF1204	Single	55	1.2	5.5	•	100	-	-	Hi	CSP 0.76x0.76	
FPF1207UCX	Single	50	1.2	4	•	110	-	-	Hi	WL-CSP 0.76x0.76	
FPF1208UCX	Single	50	1.2	4	•	110	-	•	Hi	WL-CSP 0.76x0.76	

同步和异步升压稳压器							
产品型号	类型	V_{IN} (V)	V_{OUT} (V)	输出电流 (mA)	开关频率 (MHz)	最高效率 (%)	封装
FAN4860	同步	2.3-4.5	5V, Fixed	250	3	92	WL-CSP 6 Bump, UMLP 2x2
FAN4855	同步	1.6-4.5	3-5, Adj	500	0.43	95	MSOP-8
FAN5331	异步	2.7-5.5	<20, Adj	50	1.6	88	SOT-23
FAN5333A	异步	2.7-5.5	<30, Adj	75	1.6	88	SOT-23
FAN5333B	异步	1.8-5.5	<30, Adj	75	1.6	80	SOT-23
FAN5341	异步	2.7-5.5	<22, Adj	25	1.2	83	MLP 2x2 6L
FAN5343	异步	2.5-5.5	<25, Adj	25	1.2	83	MLP 2x2 6L

同步降压稳压器							
产品型号	V_{IN} (V)	V_{OUT} (V)	输出电流 (mA)	输出类型	开关频率 (MHz)	最高效率 (%)	封装
FAN5350	2.7-5.5	1.82	600	Fixed	3	94	WL-CSP 1x1.37 5 Bump, 3x3 MLP
FAN5352*	2.7-5.5	0.8-0.9 V_{IN}	2200	Adj	3	95	MLP 3x2
FAN53540	2.7-5.5	0.8-0.9 V_{IN}	5000	Adj	2.4	95	WL-CSP 1.56x1.96
FAN5355	2.7-5.5	0.75-1.975	800 / 1000	Adj	3	94	WL-CSP 1.46x2.23 12 Bump, 3x3 MLP
FAN5365	2.3-5.5	0.75-1.975	800 / 1000	Adj	-	-	-
FAN2001	2.5-5.5	0.8- V_{IN}	1000	Adj	1.3	95	MLP 3x3
FAN2002	2.5-5.5	0.8- V_{IN}	1000	Adj	1.3	95	MLP 3x3
FAN5361	2.3-5.5	1.0-1.82	600	Fixed	6	92	WL-CSP 0.99x1.39 6 Bump
FAN4602	2.3-5.5	1.0-1.82	600	Fixed	6	92	MLP 4x2.5
FAN4603	2.3-5.5	1.0-1.82	600	Fixed	6	92	MLP 4x2.5
FAN5353	2.7-5.5	0.8 - 3.3	3000	Adj	3	93	MLP 3x3.5
FAN5354	2.7-5.5	0.8 - 3.3	3000	Adj	3	93	MLP 3x3.5
FAN5358	2.7-5.5	1.0 - 1.8V	500	Fixed	2	93	SC 70-6L

* 研发中

RF 功率放大器用 DC-DC							
产品型号	V_{IN} (V)	V_{OUT} (V)	特点	频率 (MHz)	输出电流 (mA)	应用	封装
FAN5903*	2.7-5.5	0.4-3.5	PFM, PWM, Bypass, FET 动态输出	3/6 (可选择)	1000/2400 (Bypass)	WCDMA, CDMA, Linear PAs	WL CSP 1.34x1.29 9 Bumps
FAN5904	2.7-5.5	0.4-3.5	PFM, PWM, Bypass, FET 动态输出	3/6 (可选择)	2300/3000 (Bypass)	WCDMA, CDMA, GSM, Linear PAs	WL CSP 1.71x1.71 16-Bump

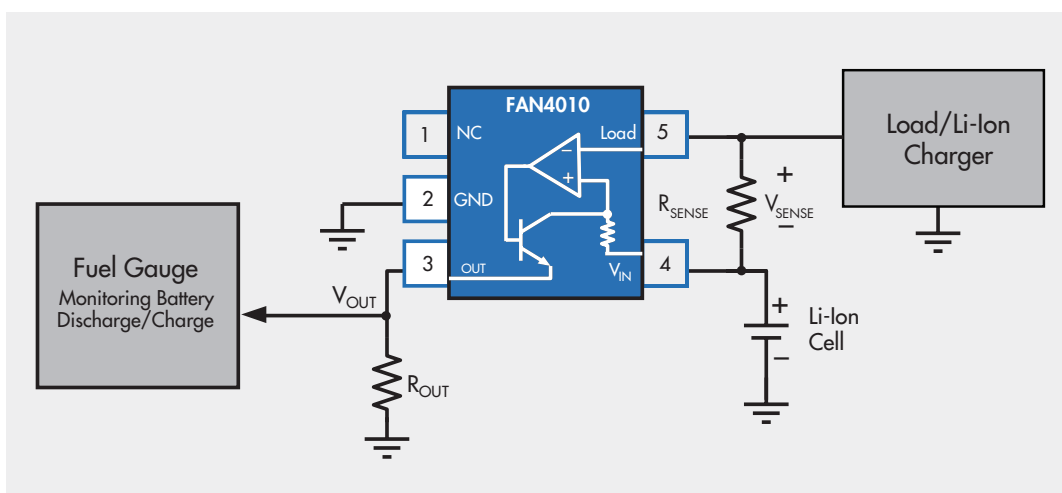
* 研发中

LED 驱动器								
产品型号	配置	LED 数	输入电压 (V)	LED 电流 (mA)	Boost	亮度控制	效率	封装
FAN5646	NA	1	2.7-5.5	3-20	高端 CC 衰减驱动器	模拟	-	WL-CSP 0.85x0.85mm Bump, 5-lead SC-70
FAN5701UC08X	并联	6	2.7-5.5	8	充电泵	PWM	92%	WL-CSP 16-bumps
FAN5701UC15X	并联	6	2.7-5.5	15	充电泵	PWM	92%	WL-CSP 16-bumps
FAN5701UC20X	并联	6	2.7-5.5	20	充电泵	PWM	92%	WL-CSP 16-bumps
FAN5701UC30X	并联	6	2.7-5.5	30	充电泵	PWM	92%	WL-CSP 16-bumps
FAN5701UMP08X	并联	6	2.7-5.5	8	充电泵	PWM	92%	UMLP-16
FAN5701UMP15X	并联	6	2.7-5.5	15	充电泵	PWM	92%	UMLP-16
FAN5701UMP20X	并联	6	2.7-5.5	20	充电泵	PWM	92%	UMLP-16
FAN5701UMP30X	并联	6	2.7-5.5	30	充电泵	PWM	92%	UMLP-16
FAN5702UC08X	并联	6	2.7-5.5	8	充电泵	数字	92%	WL-CSP 16-bumps
FAN5702UC15X	并联	6	2.7-5.5	15	充电泵	数字	92%	WL-CSP 16-bumps
FAN5702UC20X	并联	6	2.7-5.5	20	充电泵	数字	92%	WL-CSP 16-bumps
FAN5702UC30X	并联	6	2.7-5.5	30	充电泵	数字	92%	WL-CSP 16-bumps
FAN5702UMP08X	并联	6	2.7-5.5	8	充电泵	数字	92%	UMLP-16
FAN5702UMP15X	并联	6	2.7-5.5	15	充电泵	数字	92%	UMLP-16
FAN5702UMP20X	并联	6	2.7-5.5	20	充电泵	数字	92%	UMLP-16
FAN5702UMP30X	并联	6	2.7-5.5	30	充电泵	数字	92%	UMLP-16
FAN5333BSX	串联	7	2.7-5.5	40	异步 Boost	模拟	88%	SOT23-5
FAN5340UCX	串联	5	2.7-5.5	40	同步 Boost	PWM	85%	WL-CSP 9-bumps
FAN5340MPX	串联	5	2.7-5.5	40	同步 Boost	PWM	85%	MPL-8
FAN5341UMPX	串联	5	2.7-5.5	25	异步升压变换器 带内置肖特基二极管	数字	83%	UMLP-6
FAN5343UMPX	串联	6	2.7-5.5	25	异步升压变换器 带内置肖特基二极管	数字	81%	UMLP-6
FAN5622SX	并联	2	2.7-5.5	30	No Boost	单线 数控	92%	MicroPak 2.1x1.6-10
FAN5624UMPX	并联	4	2.7-5.5	30	No Boost	单线 数控	92%	SOT23-6
FAN5626LX	并联	6	2.7-5.5	30	No Boost	单线 数控	92%	UMLP 1.4x1.8 10L

充电泵变换器与电流检测放大器

DC-DC 变换器充电泵						
产品型号	V_{IN} (V)	V_{OUT} (V)	输出电流 (mA)	开关频率 (MHz)	最高频率 (%)	封装
FAN5602MP5X	2.7-5.5	5	100	1.0	92	WLP 3x3-8L
FAN5665	2.9-5.5	5	30	1.2	92	WL-CSP 8-bump
FAN5701UC30X	2.7-5.5	2.7-5.5, ADJ	180 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5701UC20X	2.7-5.5	2.7-5.5, ADJ	120 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5701UC15X	2.7-5.5	2.7-5.5, ADJ	90 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5701UC08X	2.7-5.5	2.7-5.5, ADJ	48 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5701UMP30X	2.7-5.5	2.7-5.5, ADJ	180 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5701UMP20X	2.7-5.5	2.7-5.5, ADJ	120 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5701UMP15X	2.7-5.5	2.7-5.5, ADJ	90 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5701UMP08X	2.7-5.5	2.7-5.5, ADJ	48 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5702UC30X	2.7-5.5	2.7-5.5, ADJ	180 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5702UC20X	2.7-5.5	2.7-5.5, ADJ	120 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5702UC15X	2.7-5.5	2.7-5.5, ADJ	90 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5702UC08X	2.7-5.5	2.7-5.5, ADJ	48 total	1.2	92	WL-CSP 1.61 x 1.61, 16-bump
FAN5702UMP30X	2.7-5.5	2.7-5.5, ADJ	180 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5702UMP20X	2.7-5.5	2.7-5.5, ADJ	120 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5702UMP15X	2.7-5.5	2.7-5.5, ADJ	90 total	1.2	92	3x3mm 0.55mm Thin MLP
FAN5702UMP08X	2.7-5.5	2.7-5.5, ADJ	48 total	1.2	92	3x3mm 0.55mm Thin MLP

电流检测放大器						
产品型号	输入电压 (V)	Accuracy @ V_{SENSE}	电源电流 I_s (μA)	增益 $I_{OUT} V_{SENSE}$	带宽	封装
FAN4010	2 - 6	0.2% @ 100mV	3.5	10mA/V	2.0	SOT-23



电流检测放大器应用

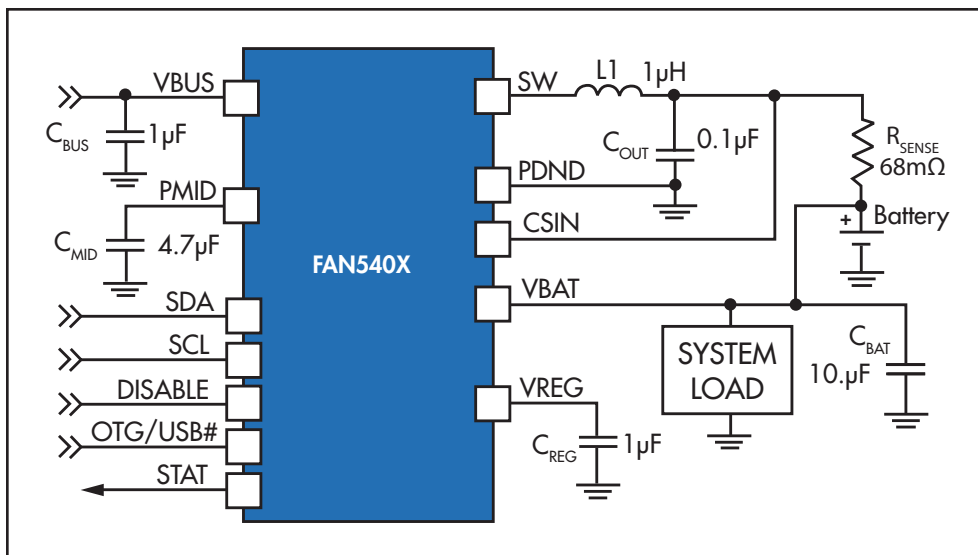
无热问题的快速锂离子电池充电

Up to 94% Efficiency

2.5W → **2.35W**

- Up to 94% Efficiency for Fast Charge Time and Less Heat
- Up to 1.25A Charging Current
- Smallest Switching Charger with USB-OTG 5V Boost

当单个锂离子电池和并联锂离子电池尺寸增大时，通过 USB 连线或线性充电器进行充电，效率将十分低下。FAN5400 开关模式充电器效率高达 94%，充电速度加快，热损更低。集成的 5V、300mA 升压稳压器，大大减少了元器件数量，同时 3MHz 开关频率降低了芯片尺寸和外部无源器件的成本。



FAN5400 系列				
产品型号	自动充电器	自适应输入电流限制	安全限制	电池空缺性能
FAN5400	Yes	No	No	Off
FAN5401	No	No	No	Off
FAN5402	Yes	No	No	On
FAN5403	Yes	Yes	Yes	Off
FAN5404	No	Yes	Yes	Off
FAN5405	Yes	Yes	Yes	On

USB 开关											
产品型号	类型	路径类型	端口	信号范围	R _{ON} (V)	C _{ON} (pF)	带宽 (MHz)	V _{CC} (V)	I _{CC} (A)	ESD HBM (kV)	封装
FSUSB104	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to 4.3V	3.9	3.7	720	3.0 to 4.3	1μ	8	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
		1 USB (HS / FS)									
FSUSB11	DPDT (1x)	1 USB (FS)	D+ / D-	0 to V _{CC}	2.7	40	350	1.65 to 5.50	1μ	8	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch)
		1 USB (FS)									
FSUSB20	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	5	12	750	3.0 to 3.6	1μ	7	MicroPak™ (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch) DQFN (BQX) (14-lead, 3.0x2.5mm, 0.5mm pitch)
		1 USB (HS / FS)									
FSUSB22	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	5	12	750	3.0 to 3.6	1μ	4	DQFN (BQX) (16-lead, 3.5x2.5mm, 0.5mm pitch) TSSOP (MTCX) (16-lead, 6.4x5mm, 0.65mm pitch) QSOP (QSCX) (16-lead, 6.5x5mm, 0.635mm pitch)
		1 USB (HS / FS)									
	DPDT (1x)	1 USB (HS / FS)	D+ / D-								
		1 USB (HS / FS)									
FSUSB23	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	6	9	720	3.0 to 3.6	1μ	7	DQFN (BQX) (16-lead, 3.5x2.5mm, 0.5mm pitch) MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
		1 USB (HS / FS)									
FSUSB30	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	6.5	3.7	720	3.0 to 4.3	1μ	8	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) DQFN (BQX) (14-lead, 3.0x2.5mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch) UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
		1 USB (HS / FS)									
FSUSB31	SPST (2x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	6.5	3.7	720	3.0 to 4.3	1μ	7.5	MicroPak (L108X) (10-lead, 1.6x1.6mm, 0.5mm pitch) UMLP (UMX) (8-lead, 1.2x1.4mm, 0.4mm pitch) US8 (K8x) (8-lead, 2x3.1mm, 0.5mm pitch)
FSUSB40	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	3.9	5.9	720	3.0 to 4.3	1μ	7	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
		1 USB (HS / FS)									
FSUSB42	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	3.9	3.7	720	3.0 to 4.3	1μ	7	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch)
		1 USB (HS / FS)									
FSUSB43	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	3.9	3.7	720	3.0 to 4.3	1μ	8	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
		1 USB (HS / FS)									
FSUSB45	DPDT (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	3.9	7	720	3.0 to 4.3	1μ	7	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
		1 USB (HS / FS)									

USB 开关 (续)											
产品型号	类型	路径类型	端口	信号范围	R _{ON} (Ω)	C _{ON} (pF)	带宽 (MHz)	V _{CC} (V)	I _{CC} (A)	ESD HBM (kV)	封装
FSUSB46	SPST (1x)	1 USB (HS / FS)	D+ / D-	0 to V _{CC}	3.9	7	720	3.0 to 4.3	1μ	7	MicroPak™ (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch) USB (K8X) (8-lead, 3.1x2mm, 0.5mm pitch) UMLP (UMX) (8-lead, 1.2x1.4mm, 0.4mm pitch)
FSUSB63	3:1 SPDT (1x)	1 USB (HS/FS)	D+ / D-	0 to V _{CC}	6	5	830	2.7 to 4.3	1μA (Sleep) 10μA (Active)	5	UMLP (UMX) (12-lead, 1.8x1.8mm, 0.4mm pitch)
		1 USB (HS/FS)									
		1 USB (HS/FS)									
FSUSB73	2P3T (1x) 3:1 Mux + 隔离开关	1 USB (HS / FS)	D+ / D-	-0.5 to 4.4V	6.5	7.5		2.5 to 4.4	9μA	2	UMLP (UMX) (16-lead, 1.8x2.6x0.55mm, 0.4mm pitch)
		1 USB (HS / FS)									
		1 USB (HS / FS)									
		1 USB (HS / FS) Isolation									
FSUSB74	2P4T (1x) 4:1 Mux	1 USB (HS / FS)	D+ / D-	-0.5 to 4.4V	6.5	7.5		2.5 to 4.4	9μA	2	UMLP (UMX) (16-lead, 1.8x2.6x0.55mm, 0.4mm pitch) MLP (MPX) (16-lead, 3x3x0.7mm, 0.5mm pitch)
		1 USB (HS / FS)									
		1 USB (HS / FS)									
		1 USB (HS / FS)									

说明: 所有产品均具有较低的 I_{CC1} 和断电保护

多媒体开关											
产品型号	类型	路径类型	端口	信号范围	R _{ON} (Ω)	C _{ON} (pF)	带宽 (MHz)	V _{CC} (V)	ESD HBM (kV)	封装	
FSA110	DPST (2x)	USB	D+ / R D- / L	0 to 4.3V (USB)	-	-	-	2.7 to 4.3	2	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch) USB (K8X) (8-lead, 3.1x2mm, 0.5mm pitch)	
		音频 (负摆幅)		(V _{AUDIO} - 4.3) to V _{AUDIO}	1.5	-	-	2.7 to 4.3			
FSA201	DPDT (1x)	1 USB (HS / FS)	D+ / R D- / L	0 to 3.6V (USB)	3	25	400	V _{BUS}	8	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch)	
		1 音频路径 (负摆幅)		(V _{AUDIO} - 6.5) to V _{AUDIO}	0.5	29	-	V _{AUDIO} = 2.7 to 3.6			
FSA203	DPDT (1x) 视频滤波器 SPDT (1x)	1 USB (HS / FS)	D+ / R D- / L	0 to 3.6V (USB)	4	7.6	780	V _{BUS}	6.5	DQFN (BQX) (20-lead, 2.5x4.5mm, 0.5mm pitch)	
		1 音频路径 (负摆幅)		(V _{AV} - 5.5) to V _{AV}	3.5	9.7	-	V _{AV} = 3.0 to 3.6			
		ID	Vid / Mic	(V _{AV} - 5.5) to V _{AV}	3	10	615	V _{AV} = 3.0 to 3.6			
		1 麦克风		(V _{AV} - 5.5) to V _{AV}							
1 视频滤波器	Video Out	1.2 V _{PP}	2.5k	-	8	V _{AV} = 3.0 to 3.6					
FSA221	DPDT (1x)	1 USB (HS / FS)	D+ / R D- / L	0 to 3.6V (USB)	4	4.5	720	V _{BUS}	7.5	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch) UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)	
		1 音频路径 (负摆幅)		(V _{AV} - 5.5) to V _{AV}	3	9	-	V _{AUDIO} = 3.0 to 4.2			

说明: 所有产品均具有较低的 I_{CC1} 和断电保护

多媒体开关 (续)										
产品型号	类型	路径类型	端口	信号范围	R_{ON} (Ω)	C_{ON} (pF)	带宽 (MHz)	V_{CC} (V)	ESD HBM (kV)	封装
FSA223	DPDT (1x)	1 USB (HS / FS)	D+ / R D- / L	0 to 3.6V (USB)	4	4.5	720	$V_{BUS} =$ 2.7 to 5.5	3	MicroPak™ (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch) UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
		1 音频路径 (负摆幅)		$(V_{AUDIO} - 5.5)$ to V_{AUDIO}	3	9	-	$V_{AUDIO} =$ 2.7 to 5.5		
FSA321	DPDT (1x)	1 USB (HS / FS)	D+ / R D- / L	0 to 4.3V (USB)	8	5.4	720	V_{BUS}	8	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
		1 音频路径 (负摆幅)		$(V_{CC} - 4.3)$ to V_{CC}	1.8	5.4	-	1.8 to 4.3		
FSA801	3:1 Mux DPDT (1x) 充电器检测	1 USB (HS / FS)	D+ / R D- / L	0 to 4.4V (USB)	6	7.6	720	2.7 to 4.4	3	UMLP (UMX) (16-lead, 1.8x2.6x0.55mm, 0.4mm pitch)
		1 音频路径 (负摆幅)		$V_{CC} - 7$ to 2V	3	-	-			
		1 麦克风	V_{BUS} or D+	0 to $V_{CC} - 1$	15	-	-			
FSA806	3:1 Mux DPDT (1x)	1 USB (HS / FS) / UART	D+ / R D- / L	0 to 4.4V (USB)	6	6.8	-	2.7 to 4.4	3	UMLP (UMX) (12-lead, 1.8x1.8x0.55mm, 0.4mm pitch)
		1 音频路径 (负摆幅)		$V_{CC} - 7$ to 2V	3	-	-			
	2:1 Mux DPDT (1x)	1 USB (HS / FS) / UART		3.0 to 4.4V (USB)	8	6	-	3.0 to 4.4	4	
		1 USB (FS) / UART		0 to 3.6V (USB or UART)			-			
FSA880 / FSA881	DPDT (1x) w/ 附件与 充电器检测	1 USB (HS / FS)	D+ / D-	0 to 3.6V	8	6	-	1.8 to 3.6	4	UMLP (UMX) (16-lead, 1.8x2.6x0.55mm, 0.4mm pitch)
		1 USB (HS / FS)								
FSA2000	DPDT (1x)	1 USB (HS / FS)	D+ / R D- / L	0 to 3.6V (USB)	4	8.8	720	V_{BUS}	2	UMLP (UMX) (16-lead, 2.6x1.8mm, 0.4mm pitch)
		1 音频路径 (集成 40mW 耳机放大器)		(-2.5) to 2.5V	-	-	-	2.7 to 4.3		
FSA9280A (7.2V OVP)	3:1 MUX 充电器检测 集成 ID 检测 FET OCP/OVP	1USB (HS/FS)	D+ / R D- / L	0 to 3.6V	8	8	-	$V_{BAT} =$ 3.0 to 4.4	4	UMLP (UMX) (20-lead, 3x4mm, 0.5mm pitch)
		1USB (FS) / UART		0 to 3.6V	25	-	-	$V_{BUS_IN} =$ 4 to 5 $V_{DDIO} =$ 1.8 to 3.6		
FSA9288A (8V OVP)	3:1 MUX 充电器检测 集成 ID 检测 FET OCP/OVP	1 音频路径 (负摆幅)	D+ / R D- / L	-0.8 to 3.0V	3	-	-	$V_{BAT} =$ 3.0 to 4.4 $V_{BUS_IN} =$ 4 to 5	3.5	UMLP (UMX) (20-lead, 3x4mm, 0.5mm pitch)
		V_{BUS_OUT} or MIC	V_{BUS_IN} or MIC	0 to 5V	40	-	-	$V_{DDIO} =$ 1.8 to 3.6		

说明: 所有产品均具有较低的 I_{CC1} 和断电保护

音频模拟开关											
产品型号	类型	信号范围	R _{ON} (Ω)	V _{CC} (V)	带宽 (MHz)	C _{ON} (pF)	C _{OFF} (pF)	ESD HBM (kV)	Low I _{CCR}	断电保护	封装
FSA2257	SPDT (2x)	0 to V _{CC}	0.95	1.65 to 5.5	200	40	12	8	-	-	MicroPak™ (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch)
FSA2258	SPDT (2x)	0 to V _{CC}	0.8	1.65 to 4.3	200	120	30	16	Yes	Yes	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
FSA2267	SPDT (2x)	0 to V _{CC}	0.35	1.65 to 3.6	45	126	30	7.5	-	-	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch)
FSA2267A	SPDT (2x)	0 to V _{CC}	0.35	2.3 to 4.3	45	126	30	7	Yes	-	MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch) MSOP (MUX) (10-lead, 3x4.9mm, 0.5mm pitch)
FSA2268	SPDT (2x)	0 to V _{CC}	0.4	1.65 to 4.3	>50	120	30	16	Yes	Yes	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch) MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
FSA2268T	SPDT (2x)	0 to V _{CC}	0.4	1.65 to 4.3	>50	120	30	16	Yes	Yes	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch) MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
FSA2357	DP3T	0 to V _{CC}	0.55	2.6 to 4.5	>120	70	42	8	Yes	Yes	DQFN (BQX) (14-lead, 2.5x3mm, 0.5mm pitch) TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch)
FSA2467	DPDT (2x)	0 to V _{CC}	0.4	1.65 to 4.3	85	118	32	5.5	Yes	-	UMLP (UMX) (16-lead, 1.8x2.6mm, 0.4mm pitch) MLP (MPX) (16-lead, 3x3mm, 0.5mm pitch)
负载幅											
FSA2147	DPST (NO) (1x)	V _{CC} - 4.3 to V _{CC}	2.5	2.7 to 4.3	-	-	6	12	Yes	Yes	US8 (K8X) (8-lead, 2x3.1mm, 0.5 pitch)
FSA2269	SPDT (2x)	V _{CC} - 4.6 to V _{CC}	0.4	1.65 to 4.3	>50	120	30	12	Yes	Yes	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch) WL-CSP (UCX) (12-ball, 1.2mm x 1.6mm, 0.4mm pitch) MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
FSA2269TS	SPDT (2x)	V _{CC} - 4.6 to V _{CC}	0.4	1.65 to 4.3	>50	120	30	12	Yes	Yes	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch) MicroPak (L10X) (10-lead, 1.6x2.1mm, 0.5mm pitch)
FSA2270T	SPDT (2x)	V _{CC} - 4.3 to V _{CC}	0.4	1.65 to 4.3	>50	120	30	11	Yes	Yes	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
FSA2271T	SPDT (2x)	V _{CC} - 4.3 to V _{CC}	0.4	1.65 to 4.3	>50	120	30	10	Yes	Yes	UMLP (UMX) (10-lead, 1.4x1.8mm, 0.4mm pitch)
FSA2367	SPDT (3x)	V _{CC} - 5.5 to V _{CC} - 0.3	0.75	2.6 to 4.3	>150	55	20	8	Yes	Yes	DQFN (BQX) (14-lead, 2.5x3mm, 0.5mm pitch) TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch)
FSA2380	DP3T	V _{CC} - 5.5 to V _{CC} - 0.3	0.75	2.6 to 4.3	>120	70	42	8	Yes	Yes	DQFN (BQX) (14-lead, 2.5x3mm, 0.5mm pitch) TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch)
FSA6157	SPDT (1x)	V _{CC} - 4.3 to V _{CC}	0.8	1.65 to 4.3	50	150	30	16	Yes	Yes	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch)

说明: T-终止 S-低速打开

开关

音频插座检测和配置开关								
产品型号	检测	开关类型	V _{DD} (V)	V _{IO} (V)	THD (MIC)	ESD (气隙) (kV)	操作温度 (°C)	封装
FSA8008A	3 或 4 极音频插座 发送/结束键按下 (N/O)	MIC / Video	2.5 to 4.3	0 to V _{DD}	0.003% Typical	5	- 40 to 85	UMLP (UMX) (10-lead, 1.4x1.8x0.55mm, 0.4mm pitch)
FSA8008	附件插入 3 或 4 极音频插座 发送/结束键按下	MIC	2.5 to 4.4	1.6 to V _{DD}	0.01% Typical	15	- 40 to 85	UMLP (UMX) (10-lead, 1.4x1.8x0.55mm, 0.4mm pitch)
FSA8009	3 或 4 极音频插座 发送/结束键按下 (N/O)	MIC / Video	2.5 to 4.3	0 to V _{DD}	0.003	5	- 40 to 85	UMLP (UMX) (10-lead, 1.4x1.8x0.55mm, 0.4mm pitch)
FSA8029	3 或 4 极音频插座 发送/结束 (N/O & N/C)	MIC / Video	2.5 to 4.3	0 to V _{DD}	0.003	5	- 40 to 85	UMLP (UMX) (10-lead, 1.4x1.8x0.55mm, 0.4mm pitch)

移动高清链接 (MHL) 带有高速 USB 2.0 开关						
产品型号	标准	开关类型	V _{DD} (V)	带宽 (GHz)	ESD (气隙) (kV)	封装
FSA3000	MHL Switch	DPDT (1x)	2.7 to 4.3	2.46	15	MicroPak™ (L10X) (10-lead, 1.6x2.11mm, 0.5mm pitch)
FSA3200	MHL Switch w/ID	DPDT (1x) + SPDT (1x)	2.7 to 4.3	2.34	15	UMLP (UMX) (16-lead, 1.8x2.6x0.55mm, 0.4mm pitch)

通用模拟开关											
产品型号	类型	信号范围	R _{ON} (Ω)	V _{CC} (V)	带宽 (MHz)	C _{ON} (pF)	C _{OFF} (pF)	ESD HBM (kV)	Low I _{CTT}	断电保护	封装
FSA1156	SPST (NO) (1x)	0 to V _{CC}	0.75	1.65 to 5.5	300	65	20	8	-	-	MicroPak™ (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA1157	SPST (NC) (1x)	0 to V _{CC}	0.75	1.65 to 5.5	300	65	20	8	-	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA1256	SPST (NO) (2x)	0 to V _{CC}	0.95	1.65 to 5.5	300	27	11.5	5.5	-	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch)
FSA1256A	SPST (NO) (2x)	0 to V _{CC}	0.95	2.7 to 5.5	300	27	11.5	4.5	Yes	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch)
FSA1257	SPST (NC) (2x)	0 to V _{CC}	0.95	1.65 to 5.5	300	27	11.5	5.5	-	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch)
FSA1257A	SPST (NC) (2x)	0 to V _{CC}	0.95	2.7 to 5.5	300	27	11.5	4.5	Yes	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch)
FSA1258	SPST (NO/ NC) (2x)	0 to V _{CC}	0.95	1.65 to 5.5	300	27	11.5	5.5	-	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch)
FSA1258A	SPST (NO/NC) (2x)	0 to V _{CC}	0.95	2.7 to 5.5	300	27	11.5	4.5	Yes	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch)
FSA1259A	SPST (NO) (2x)	0 to V _{CC}	1	1.65 to 5.5	240	47	21	8	Yes	Yes	US8 (K8X) (8-lead, 2x3.1mm, 0.5 pitch)
FSA2156	SPST (NO) (1x)	0 to V _{CC}	0.4	3.0 to 4.3	80	115	38	8	Yes	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA2466	DPDT (2x)	0 to V _{CC}	2.5	1.65 to 4.3	245	16	6	8	Yes	-	UMLP (UMX) (16-lead, 1.8x2.6mm, 0.4mm pitch) MicroPak (L8X)
FSA266	SPST (NO) (2x)	0 to V _{CC}	6	1.65 to 5.5	300	10	5	4	-	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch) US8 (K8X) (8-lead, 2x3.1mm, 0.5mm pitch)

通用模拟开关 (续)											
产品型号	类型	信号范围	R _{ON} (Ω)	V _{CC} (V)	带宽 (MHz)	C _{ON} (pF)	C _{OFF} (pF)	ESD HBM (kV)	Low I _{CTT}	断电保护	封装
FSA3157	SPDT (1x)	0 to V _{CC}	5	1.65 to 5.5	250	19	6.5	4	-	-	MicroPak™ (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA3357	SP3T (1x)	0 to V _{CC}	5	1.65 to 5.5	250	14.5	3.6	5.5	-	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch) US8 (K8X) (8-lead, 2x3.1mm, 0.5mm pitch)
FSA4157	SPDT (1x)	0 to V _{CC}	0.95	1.65 to 5.5	350	40	12	7.5	-	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA4157A	SPDT (1x)	0 to V _{CC}	0.95	2.7 to 5.5	350	40	12	7.5	Yes	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA4159	SPDT (1x)	0 to V _{CC}	1	1.65 to 5.5	180	41	12	4	Yes	Yes	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA5157	SPDT (1x)	0 to V _{CC}	0.35	1.65 to 3.6	45	90	21	8	Yes	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
FSA66	SPST (NO) (1x)	0 to V _{CC}	5	1.65 to 5.5	250	6	-	4	Yes	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P5X) (5-lead, 2x1.25mm, 0.65mm pitch) SOT23 (M5X) (5-lead, 3x3mm, 0.95mm pitch)
FSA839	SPDT (1x)	0 to V _{CC}	0.8	1.65 to 5.5	50-60	150	50	8	Yes	Yes	WL-CSP (UCX) (6-ball, 1.6x0.76mm, 0.4mm pitch)
FSA859	SPDT (1x)	0 to V _{CC}	0.8	1.65 to 5.5	50-60	150	50	8	Yes	Yes	WL-CSP (UCX) (8-ball, 1.91x0.91mm, 0.5mm pitch)
FSAU3157	SPDT (1x)	0 to V _{CC}	5	1.65 to 5.5	250	18.5	6.5	4.5	-	-	SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
NC7SB3157	SPDT (1x)	0 to V _{CC}	5	1.65 to 5.5	250	18.5	6.5	4	-	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
NC7SBU3157	SPDT (1x)	0 to V _{CC}	5	1.65 to 5.5	250	18.5	6.5	4.5	-	-	SC70 (P6X) (6-lead, 2x1.25mm, 0.65mm pitch)
NC7SZ66	SPST (NO) (1x)	0 to V _{CC}	5	1.65 to 5.5	-	6	-	2	-	-	MicroPak (L6X) (6-lead, 1.45x1mm, 0.5mm pitch) SC70 (P5X) (5-lead, 2x1.25mm, 0.65mm pitch) SOT23 (M5X) (5-lead, 3x3mm, 0.95mm pitch)
NC7WB66	SPST (NO) (2x)	0 to V _{CC}	6	1.65 to 5.5	300	10	5	4	-	-	MicroPak (L8X) (8-lead, 1.6x1.6mm, 0.5mm pitch) US8 (K8X) (8-lead, 2x3.1mm, 0.5mm pitch)

信号路径开关											
产品型号	类型	应用	R _{ON} (Ω)	V _{CC} (V)	带宽 (MHz)	C _{ON} (pF)	C _{OFF} (pF)	ESD HBM (kV)	Low I _{CCT}	断电保护	封装
FSA1211	12PST (NC)	照相机	9	3 to 4.3	>720	6	2	5.5	Yes	-	UMLP (UMX) (28-lead, 3.5x4mm, 0.4mm pitch) UMLP (UDMX) Dual Row (28-lead, 3.6x2.9mm, 0.3mm pitch)
FSA1208	SPST (NC) (8x)	内存	15	2.3 to 4.3	>400	6	2.5	7.5	Yes	-	MLP (BQX) (20-lead, 2.5x4.5mm, 0.5mm pitch)
FSA641	2:1 MUX	MIPI	7	2.65 to 4.3	720	8	2.5	6.5	Yes	-	UMLP (UMX) (20-lead, 3x3x0.55mm, 0.4mm pitch)
FSA642	TPDP 2-Data Lane & 1-CLK	MIPI	7	2.65 to 4.3	720	7	2.5	16	Yes	-	UMLP (UMX) (24-lead, 3x3x0.55mm, 0.4mm pitch)
FSA2457	DPDT (2x)	SIM/SD/MMC	5	2.7 to 3.6	>160	12	6	8	Yes	-	UMLP (UMX) (16-lead, 1.8x2.6mm, 0.4mm pitch)
FSA2567	4PDT (2x)	SIM/SD/MMC	6	2.7 to 4.3	>160	110	40	12	Yes	-	UMLP (UMX) (16-lead, 1.8x2.6mm, 0.4mm pitch) MLP (MPX) (16-lead, 3x3mm, 0.5mm pitch)
FSSD06	6PDT (1x)	SIM/SD/MMC	4	1.65 to 3.6; V _{DDH} to 3.6	120	9	4	8	Yes	-	MLP (BQX) (24-lead, 3.5x4.5mm, 0.5mm pitch) UMLP (UMX) (24-lead, 2.5x3.4mm, 0.4mm pitch)
FSSD07	6PDT (1x)	SIM/SD/MMC	4	1.65 to 3.6; V _{DDH} to 3.6	75	9	4	8	Yes	-	MLP (BQX) (24-lead, 3.5x4.5mm, 0.5mm pitch) UMLP (UMX) (24-lead, 2.5x3.4mm, 0.4mm pitch)
FSA3259	SP3T (2x)	UART	5	1.65 to 5.5	250	14.5	3.6	5.5	-	-	DQFN (BQX) (14-lead, 2.5x3mm, 0.5mm pitch)

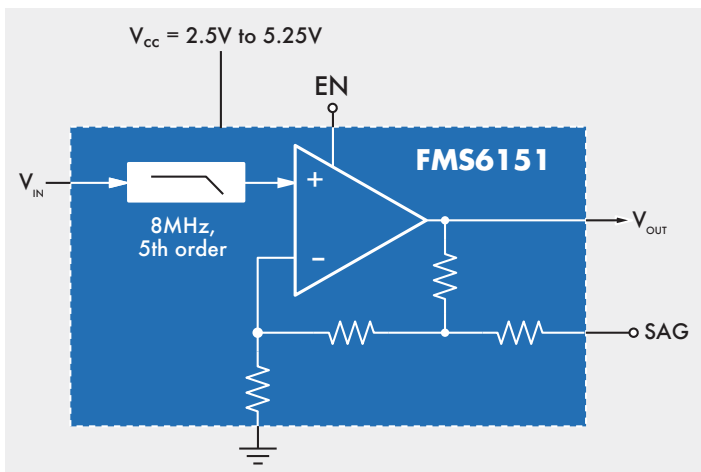
USB 收发器								
产品型号	速度	USB Spec	驱动器输入模式	驱动器 I/O (I/O 或独立输入与输出)	V _{BUS} Regulator	电压转换	特征	封装
USB1T11A	LS, FS	1.1	差分或 SE	独立	No	No	-	SOIC (MX) (14-lead, 8.75x6mm, 1.27mm pitch) TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch)
USB1T20	LS, FS	2	差分或 SE	独立	No	No	-	TSSOP (MTCX) (14-lead, 5x6.4mm, 0.65mm pitch)
USB1T1103	FS	2	差分	I/O	Yes	Yes	功能等同 ISP1102	MLP (MPX) (14-lead, 2.5x2.5mm, 0.5mm pitch) MLP (MHX) (16-lead, 3x3mm, 0.5mm pitch)
USB1T1105A	FS	2	差分或 SE	独立	Yes	Yes	-	MLP (MHX) (16-lead, 3x3mm, 0.5mm pitch)
FUSB1500	LS, FS	2	SE	独立	No	Yes	充电器检测 (阻性)	MLP (MHX) (16-lead, 3x3mm, 0.5mm pitch)
FUSB2500	HS	2	SE	独立	No	Yes	充电器检测 (阻性)	BGA (GFX) (36-ball, 3.5x3.5mm, 0.5mm pitch)
FUSB2805	HS	2	SE	独立	No	Yes	-	MLP (MLX) (32-lead, 5x5x0.8mm, 0.5mm pitch)

µSerDes™					
产品型号	位数	Serial IO	速度 (MHz)	ESD (kV)	封装
FIN210AC	10	CTL	48	15	MLP (MLX), (32-lead, 5x5mm, 0.5mm pitch) BGA (GFX), (42-ball, 4.5x3.5mm, 0.5mm pitch)
FIN212AC	12	CTL	40	14	MLP (MLX), (32-lead, 5x5mm, 0.5mm pitch) BGA (GFX), (42-ball, 4.5x3.5mm, 0.5mm pitch)
FIN224C	24	CTL	20	15	MLP (MLX), (40-lead, 6x6mm, 0.5mm pitch)
FIN224AC	22	CTL	20	15	MLP (MLX), (40-lead, 6x6mm, 0.5mm pitch) BGA (GFX), (42-ball, 4.5x3.5mm, 0.5mm pitch)
FIN324C	24	CTL	15	14.5	MLP (MLX), (40-lead, 6x6mm, 0.5mm pitch) BGA (GFX), (42-ball, 4.5x3.5mm, 0.5mm pitch)
FIN424C	20	CTL	10	15	MLP (MLX), (32-lead, 5x5mm, 0.5mm pitch)
FIN425C	20	CTL	10	15	MLP (MLX), (32-lead, 5x5mm, 0.5mm pitch)

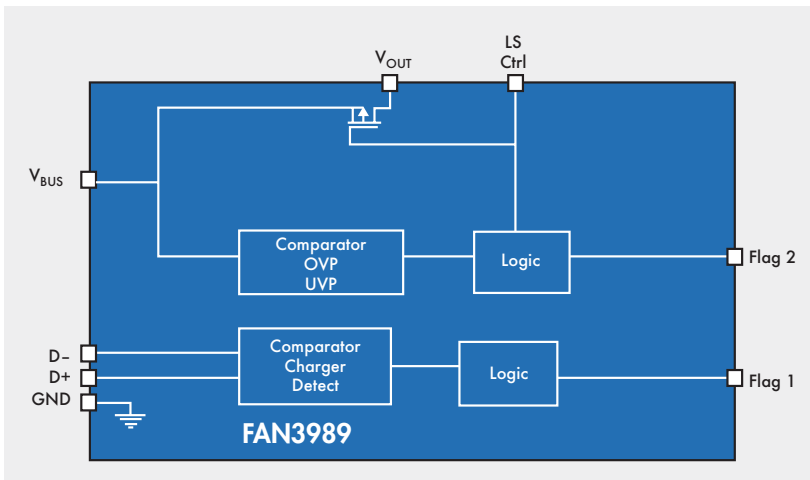
运算放大器													
产品型号	Number of Amps	节电	RRIO	BW ⁽¹⁾ (MHz)	SR (V/ μ s)	I _S ⁽³⁾ (mA)	I _{OUT} (mA)	V _{IO} (mV)	I _b (μ A)	A _{OL} (dB)	Min. V _S (V)	Max. V _S (V)	封装
FAN4174	1	No	Both	3.7 ⁽²⁾	3	0.2	+34, -12	0	5pA	102	2.5	5.5	SOT23-5, SC70-5
FAN4274	2	No	Both	3.7 ⁽²⁾	3	0.2	+34, -12	0	5pA	102	2.5	5.5	MSOP-8
FAN4851*	1	No	Yes	9	6.1	0.8	46	0.3	100nA	115	2.5	5	SOT23-5, SC70-5
FAN4852	2	No	Yes	9	6.1	0.8	46	0.3	100nA	115	2.5	5	MSOP-8
FAN4931	1	No	Both	3.7 ⁽²⁾	3	0.2	+34, -12	0	5pA	102	2.5	5.5	MSOP-8

*研发中
 说明⁽¹⁾ 小信号带宽, G=2
 说明⁽²⁾ 增益带宽积
 说明⁽³⁾ 每通道供电电流

视频滤波驱动器					
产品型号	输入格式	输出格式	通道	截止频率	封装
FMS6141	复合	复合	1	7.1	SOIC-8 & SC70-5
FMS6151	复合	复合	1	8	MicroPak™



视频滤波驱动器



USB 过压保护 (OVP)

USB 过压保护 (OVP) 系列可以为移动电话提供新的充电过压保护功能。

USB 过压保护 (OVP)								
产品型号	OVP ⁽¹⁾	UVP ⁽²⁾	充电器检测	标准 USB 检测	OV 标志输出	UV 标志输出	输入检测标志输出	负载开关
FAN3988	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
FAN3989	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

说明⁽¹⁾ 过压保护
说明⁽²⁾ 欠压保护

电平转换器

转换器										
系列	产品编号	应用	位/ 通道数	类型	静态 驱动	引脚	尺寸 (mm)	电压范围 (V)	说明	封装
FX-A 自动方向 转换器	FXLA101	Mobile	1	Auto	100 μ A	6	1.0 x 1.45	1.1 - 3.6	1-位点电平转换自动定向收发器, 具有三态输出	MicroPak™, SC70, MicroPak2™
	FXLA102	Mobile	2	Auto	100 μ A	8	1.6 x 1.6	1.1 - 3.6	2-位点电平转换自动定向收发器, 具有三态输出	MicroPak
	FXLA104	Mobile	4	Auto	100 μ A	12, 16	1.8 x 1.8	1.1 - 3.6	4-位点电平转换自动定向收发器, 具有三态输出	UMLP
	FXLA108	Mobile	8	Auto	100 μ A	20	2.5 x 4.5	1.1 - 3.6	8-位点电平转换自动定向收发器, 具有三态输出	DQFN
	FXMA108	Mobile	8	Auto	100 μ A	20	2.5 x 4.5	1.65 - 5.5	8-位点电平转换自动定向收发器, 具有三态输出	DQFN
FXL 转换器	FXLH1T45	Mobile	1	B	18mA	6	1.0 x 1.45	1.1 - 3.6	1-位点电平转换收发器, 具有三态输出。	MicroPak
	FXLP34	Mobile	1	U	2.6mA	6	1.0 x 1.0	0.9 - 3.6	单向, 1-位点电平转换缓冲器	MicroPak, MicroPak2, SC70
	FXL2T245	Mobile	2	B	24mA	10	1.6 x 2.1	1.1 - 3.6	2-位点电平转换收发器, 具有三态输出。	MicroPak
	FXL2TD245	Mobile	2	B	24mA	10	1.6 x 2.1	1.1 - 3.6	2-位点电平转换收发器, 具有独立定向控制& 三态输出。	MicroPak
	FXL4T245	Mobile	4	B	24mA	14	2.5 x 3.0	1.1 - 3.6	4-位点电平转换收发器, 具有三态输出。	DQFN
	FXL4TD245	Mobile	4	B	24mA	16	1.8 x 2.6	1.1 - 3.6	4-位点电平转换收发器, 具有独立定向控制& 三态输出。	UMLP
	FXL5T244	Mobile	5	U	24mA	14	2.5 x 3.0	1.1 - 3.6	单向, 5-位点电平转换缓冲器, 具有三态输出。	DQFN
	FXL4245	Mobile	8	B	24mA	24	3.5 x 4.5	1.1 - 3.6	8-位点电平转换收发器, 具有三态输出。	MLP
	FXLH42245	Mobile	8	B	24mA	24	3.5 x 4.5	1.1 - 3.6	8-位点电平转换收发器 26 Ω 输出串联电阻, 具有三态输出	MLP
特性	FXMA2102	I ² C, SMBus	2	H	NA	8	1.2 x 1.4	1.65 - 5.5	2-位点电平转换 I ² C 收发器, 具有 2 个电源和开漏极输出。	MicroPak, UMLP
	FXLA2203	SIM Card	8	H, U, PS	2.6mA	24	2.5 x 3.4	1.65 - 3.6	双主机双 SIM 卡转换器	UMLP
	FXLP4555	SIM Card	3	H, U, L	15mA	16	3.0 x 3.0	1.65 - 5.5	SIM 卡电源和电平转换器	MLP
	FXMAR2102	I ² C, SMBus	2	H	NA	8	1.2 x 1.4	1.65 - 5.5	2-位点电平转换 I ² C 收发器, 具有 2 个电源和开漏极输出。	MicroPak, UMLP
	FXMAR2104	I ² C, SMBus	4	H	NA	12	1.8 x 1.8	1.65 - 5.5	4-位点双电源开漏和推挽转换器	UMLP
	FXMA2104	I ² C, SMBus	4	H	NA	12	1.8 x 1.8	1.65 - 5.5	4-位点双电源开漏转换器	MicroPak, UMLP
LVX 转换器	74LVX3245	Broad Market	8	B	24mA	24	4 x 7.8	3.0 - 5.5	8-位点电平转换收发器, 具有三态输出。 VCCA=3V, VCCB = 5V	TSSOP, QSOP, SOIC
	74LVX4245	Broad Market	8	B	24mA	24	4 x 7.8	3.0 - 5.5	8-位点电平转换收发器, 具有三态输出。 VCCA = 5V, VCCB = 3V	TSSOP, QSOP, SOIC
	74LVXC3245	PCMCIA	8	B	24mA	24	4 x 7.8	3.0 - 5.5	8-位点电平转换收发器, 具有三态输出。 VCCA = 3V, VCCB = 3-5V	TSSOP, QSOP, SOIC
	74LVXC4245	PCMCIA	8	B	24mA	24	4 x 7.8	3.0 - 5.5	8-位点电平转换收发器, 具有三态输出。 VCCA = 5V, VCCB = 3-5V	TSSOP, QSOP, SOIC
VCX 转换器	74VCX163245	Broad Market	16	B	24mA	48	6.1 x 12.5	1.8 - 3.6	16-位点电平转换收发器, 具有三态输出。 VCCA = 2.3 - 3.6V, VCCB = 1.65 - 2.7V	TSSOP
	74VCX164245	Broad Market	16	B	24mA	48	6.1 x 12.5	1.8 - 3.6	16-位点电平转换收发器, 具有三态输出。 VCCA = 1.65 - 2.7V, VCCB = 2.3 - 3.6V	TSSOP

Auto: 具有总线保持的自动定向; B: 双向, 取决于方向管脚; U: 单向; H: 混合自动定向, 开漏极应用; PS: 电源开关; L: LDO低压差, DB: DC升压。

复位定时器

	电压 (V)	延时 (s)	I _{cc} @ 电流 (μA)	封装
FT7521	1.65 - 5.0	7.5	1	6-lead MicroPak™, 1.0 x 1.45mm, 0.5mm pitch
FT8010	1.65 - 5.0	7.5 or 11.25	20	10-lead UMLP, 1.4 x 1.8 x 0.55mm, 0.40mm pitch
FT3001	1.65 - 5.0	3, 3.75, 4.5, 6.0	5	10-lead UMLP, 1.4 x 1.8 x 0.55mm, 0.40mm pitch

TinyLogic®

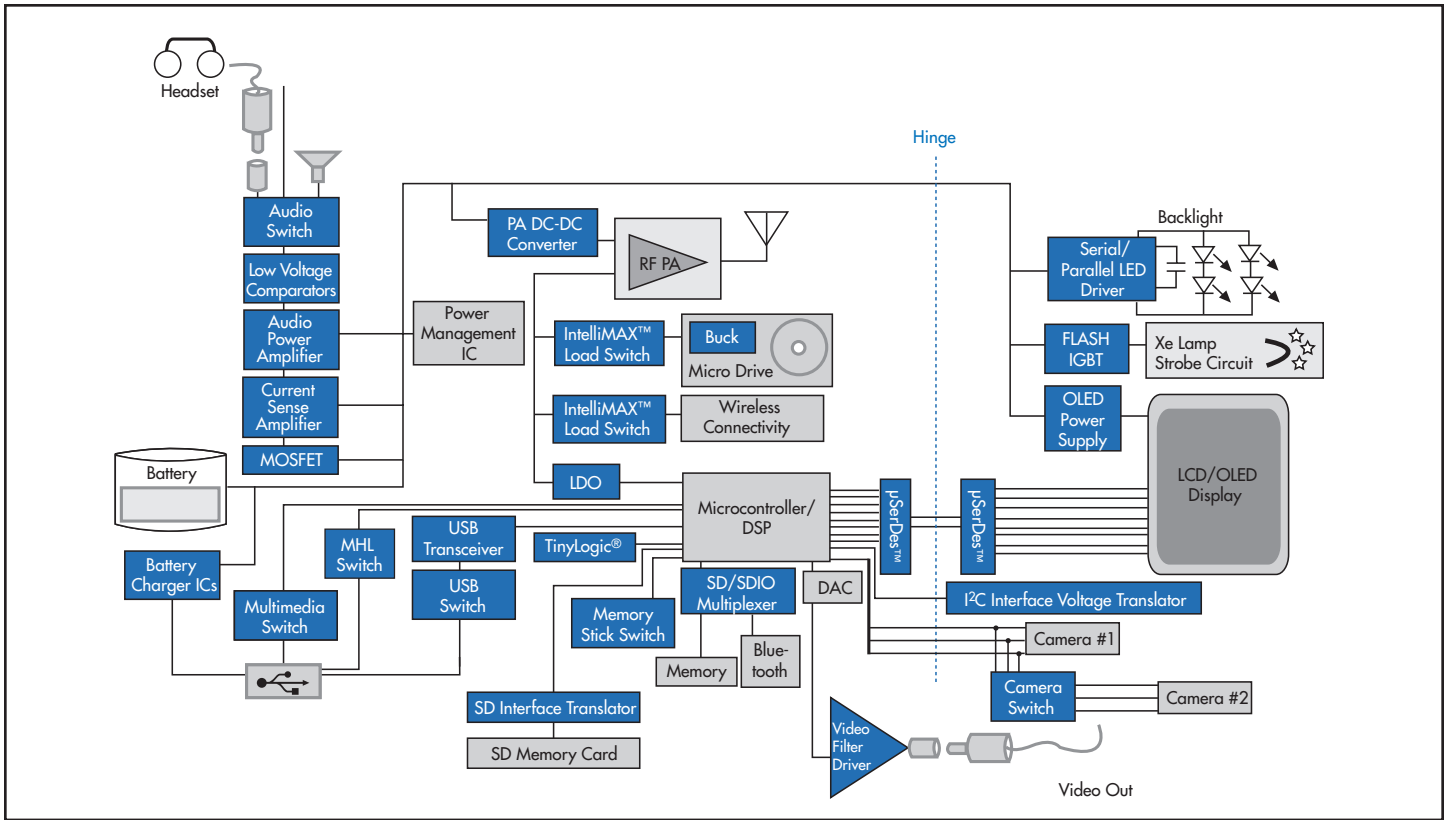
产品型号	V _{cc} Min.	V _{cc} Max.	输出特性	输入数	其他特点	封装
NC7SVL04	.9	3.6	0 - 3.6	1	低 I _{cct} 低功耗	MicroPak2™, MicroPak, SC70
NC7SVL08	.9	3.6	0 - 3.6	2	低 I _{cct} 低功耗	MicroPak2, MicroPak, SC70
NC7SVL32	.9	3.6	0 - 3.6	2	低 I _{cct} 低功耗	MicroPak2, MicroPak, SC70

产品系列对比					
产品系列	标准逻辑产品系列等效	I _{cc} (µA)	V _{cc} (V)	驱动 (mA @ V)	速度 (ns @ V)
AUP	AUP	0.9	0.8 - 3.6	±/-4.0 @ 3.0	6.3 @ 3.6
HS	HC	10	2 - 6	±1.1 @ 3.0; ±2.0 @ 4.5	25 @ 4.5
HST	HCT	10	4.5 - 5.5	±2.0 @ 4.5	20 @ 2.0
UHS	LCX/LVC	20	1.8 - 5.5	±4.0 @ 1.65; ±24.0 @ 3.3	4.7 @ 3.3
ULP	-	0.9	0.9 - 3.6	±1.0 @ 1.5; ±2.6 @ 3.0	16 @ 1.5; 7.0 @ 3.3
ULP-A	VCX	0.9	0.9 - 3.6	±2.0 @ 1.1; ±24 @ 3.3	6 @ 1.1; 1.5 @ 3.3

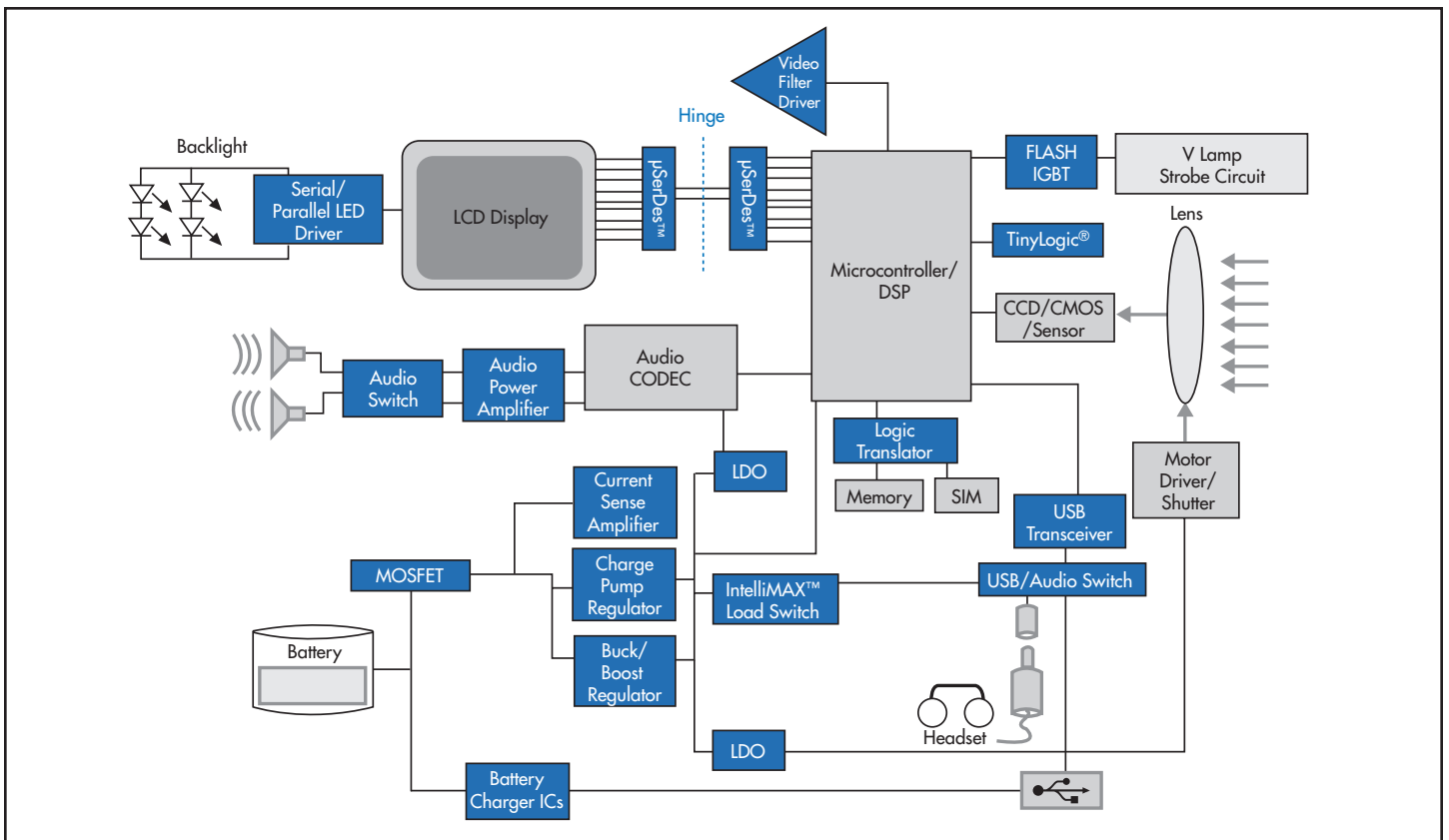
功能说明	S 一位逻辑 W 二位逻辑 N 三位逻辑	器件类型	系列				封装					
			HS (NC7)	HST (NC7xT)	UHS (NC7xZ)	ULP/ULP-A (NC7xP/NC7xV)	SOT-23 5-lead	SC70 5-lead	SC70 6-lead	USB 8-lead	MicroPak 6-lead	MicroPak 8-lead
与非门		00	S	S	SW	SW	S	S	-	W	S	W
或非门		02	S	S	SW	SW	S	S	-	W	S	W
反相器		04	S	S	SWN	SWN	S	S	W	N	SW	N
非缓冲反相器		U04	S	-	SWN	S	S	S	W	N	SW	N
反相器 w/开漏极输出		05	-	-	S	S	S	S	-	-	S	-
缓冲器 w/开漏极输出		07	-	-	W	W	-	-	W	-	W	-
与门		08	S	S	SW	SW	S	S	-	W	S	W
三输入与非门		10	-	-	S	-	-	-	S	-	S	-
三输入与门		11	-	-	S	S	-	-	S	-	S	-
反相器 w/施密特触发器输入		14	S	-	SWN	SWN	S	S	W	N	SW	N
双缓冲器		16	-	-	W	-	-	-	W	-	W	-
双缓冲器 w/施密特触发器输入		17	-	-	WN	SW	-	S	W	N	SW	N
2 分解器之一 w/3态输出		18	-	-	S	-	-	-	S	-	S	-
2 解码器之一 /分解器		19	-	-	-	S	-	-	S	-	S	-
3 输入或非门		27	-	-	S	-	-	-	S	-	S	-
或门		32	S	S	SW	SW	-	S	-	W	S	W
缓冲器		34	-	-	N	SN	-	S	-	N	S	N
与非门w/开漏极输出		38	-	-	SW	SW	-	S	S	W	S	W
通用配置2输入门		57	-	-	S	S	-	-	S	-	S	-
通用配置2输入门		58	-	-	S	S	-	-	-	-	S	-
D 触发器 w/预置位与清位		74	-	-	S	S	-	-	-	S	-	S
异或门		86	S	S	SW	SW	S	S	-	W	S	W
缓冲器w/低使能 3 态输出		125	-	-	SW	SW	S	S	-	W	S	W
缓冲器w/高使能 3 态输出		126	-	-	SW	SW	S	S	-	W	S	W
与非门 w/施密特触发器输入		132	-	-	W	W	-	-	-	W	-	W
2 输入非反复合器		157	-	-	S	S	-	-	S	-	S	-
2 输入反复合器		158	-	-	-	S	-	-	S	-	S	-
D 触发器 w/异步清位		175	-	-	S	-	-	-	S	-	S	-
反相缓冲器 w/3 态输出		240	-	-	W	W	-	-	-	W	-	W
反相缓冲器 w/高或低使能 3 态输出		241	-	-	W	W	-	-	-	W	-	W
3 输入或门		332	-	-	S	-	-	-	S	-	S	-
D 锁存 w/3 态输出		373	-	-	S	-	-	-	S	-	S	-
D 触发器 w/3 态输出		374	-	-	S	-	-	-	S	-	S	-
3 输入异或门		386	-	-	-	-	-	-	S	-	S	-

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应用框图

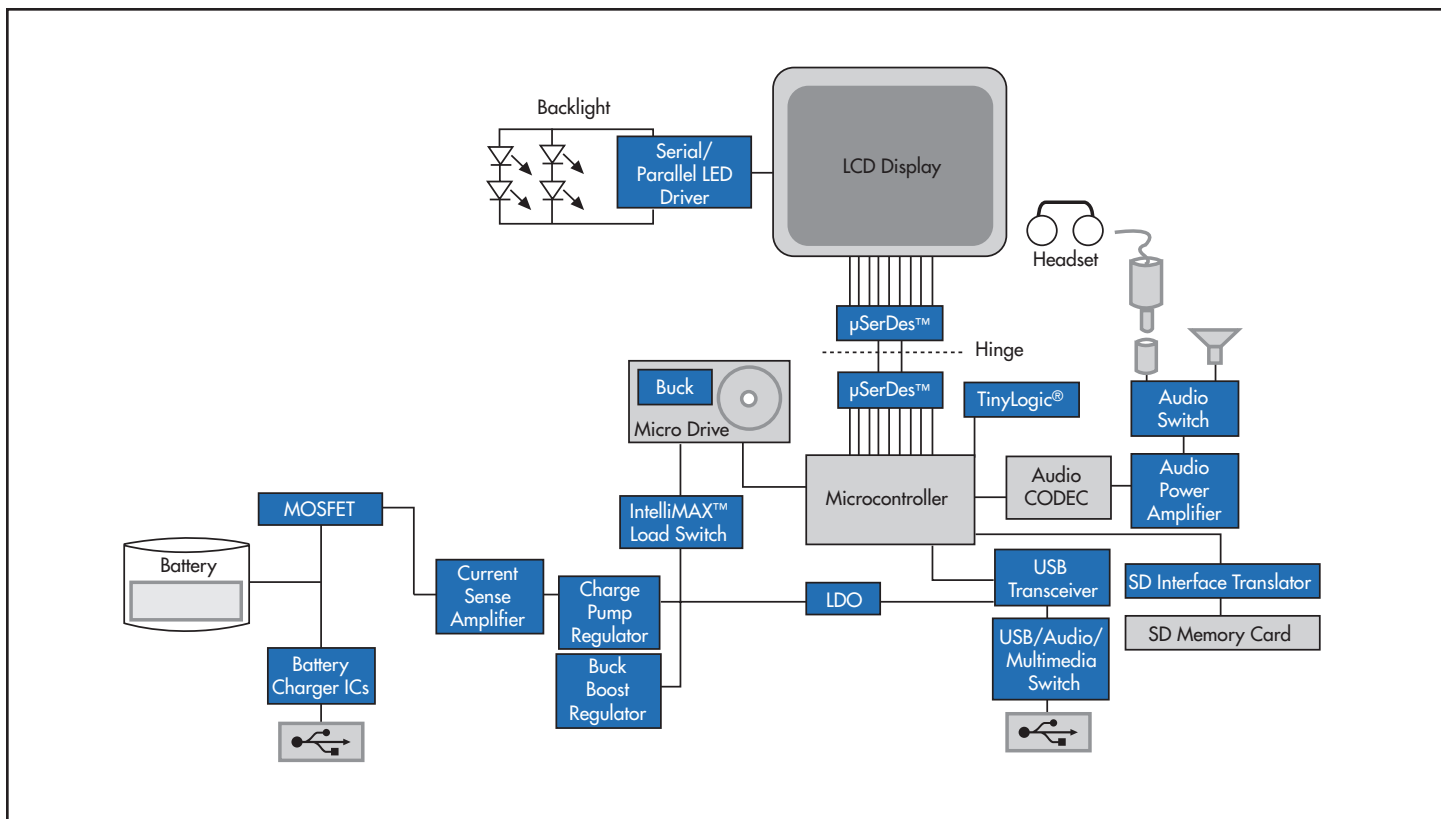


移动电话

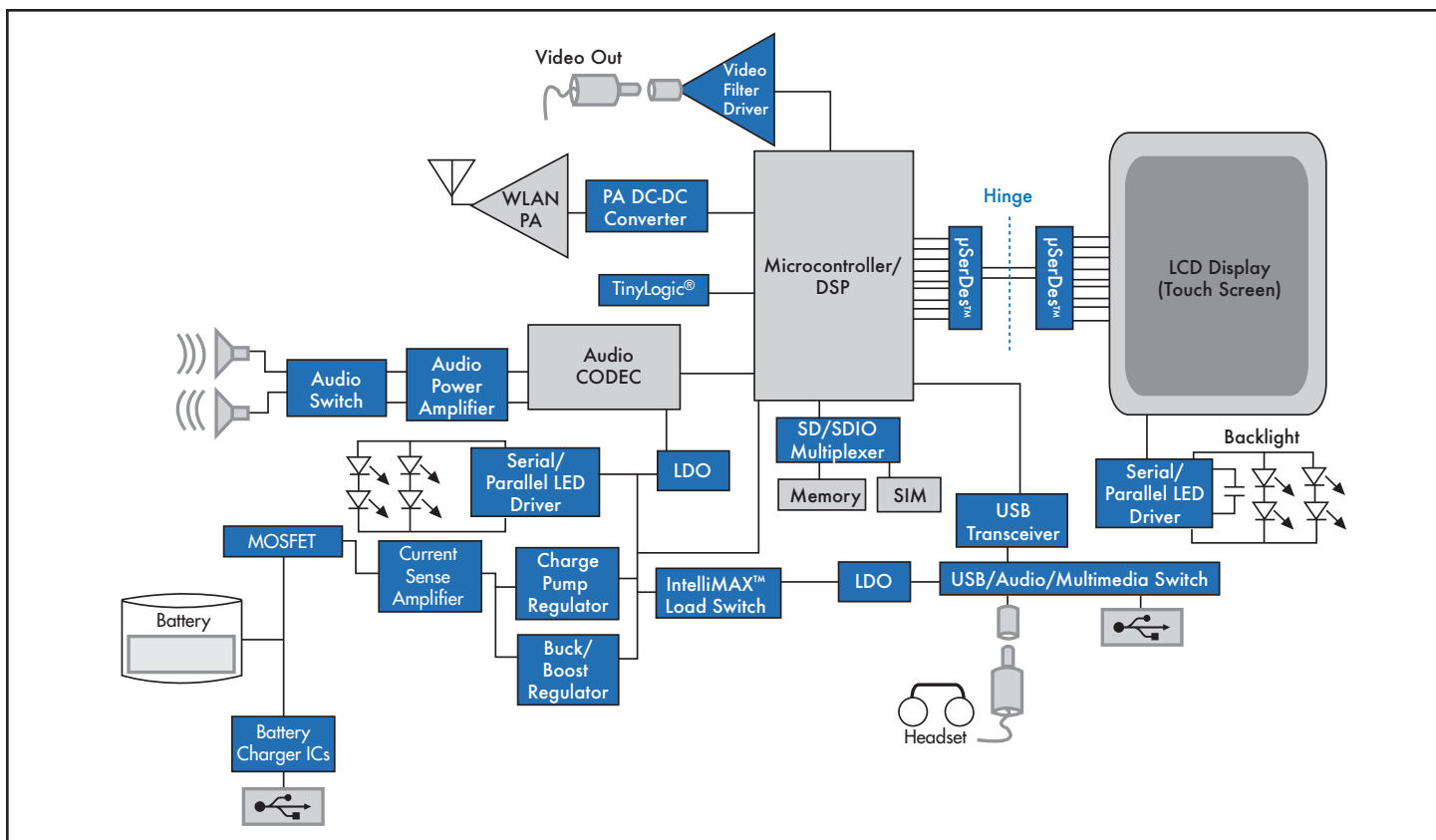


数码相机

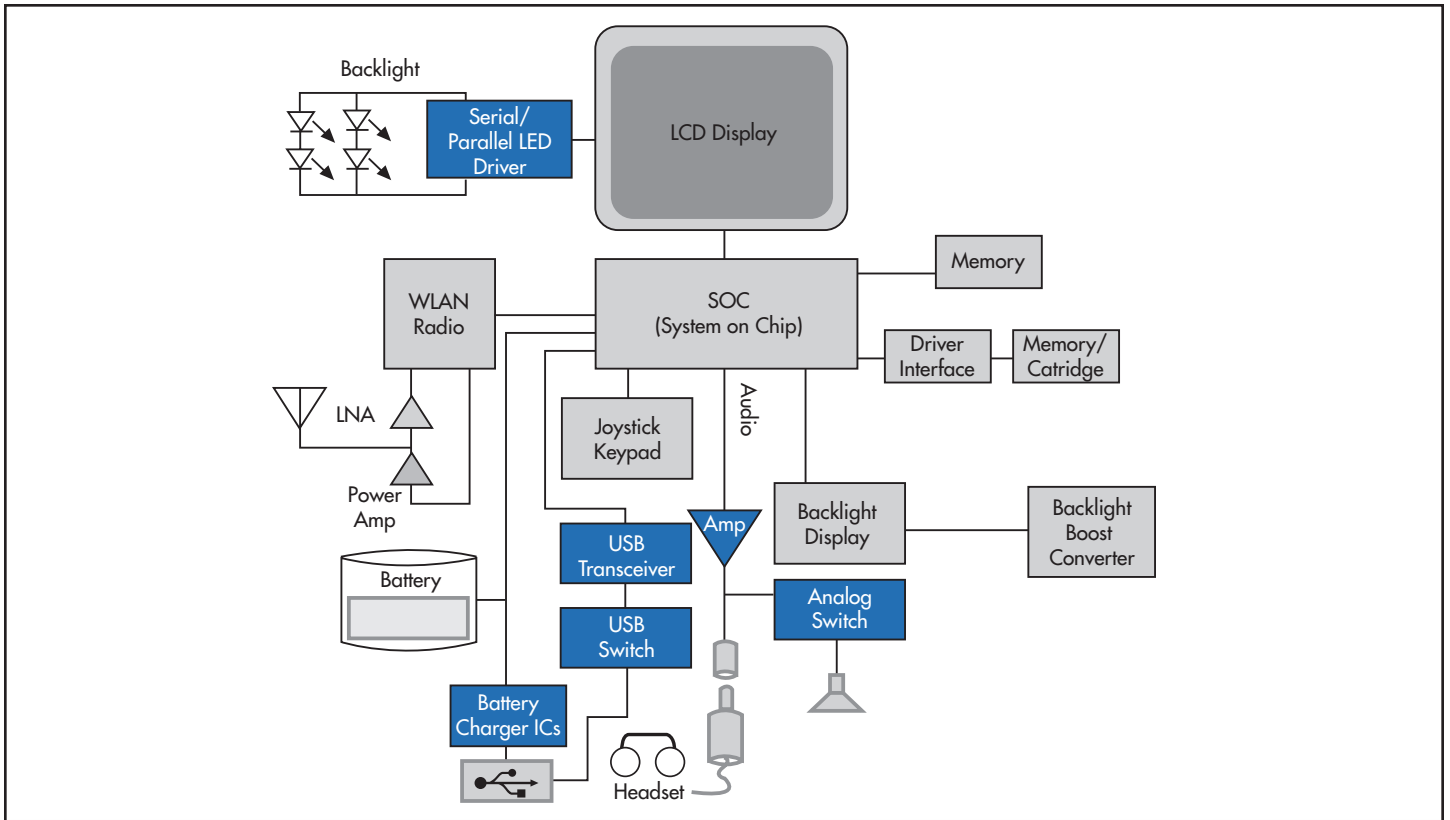
www.BDTIC.com 明：所有飞兆集成电路产品均以蓝色标示。 FAIRCHILD



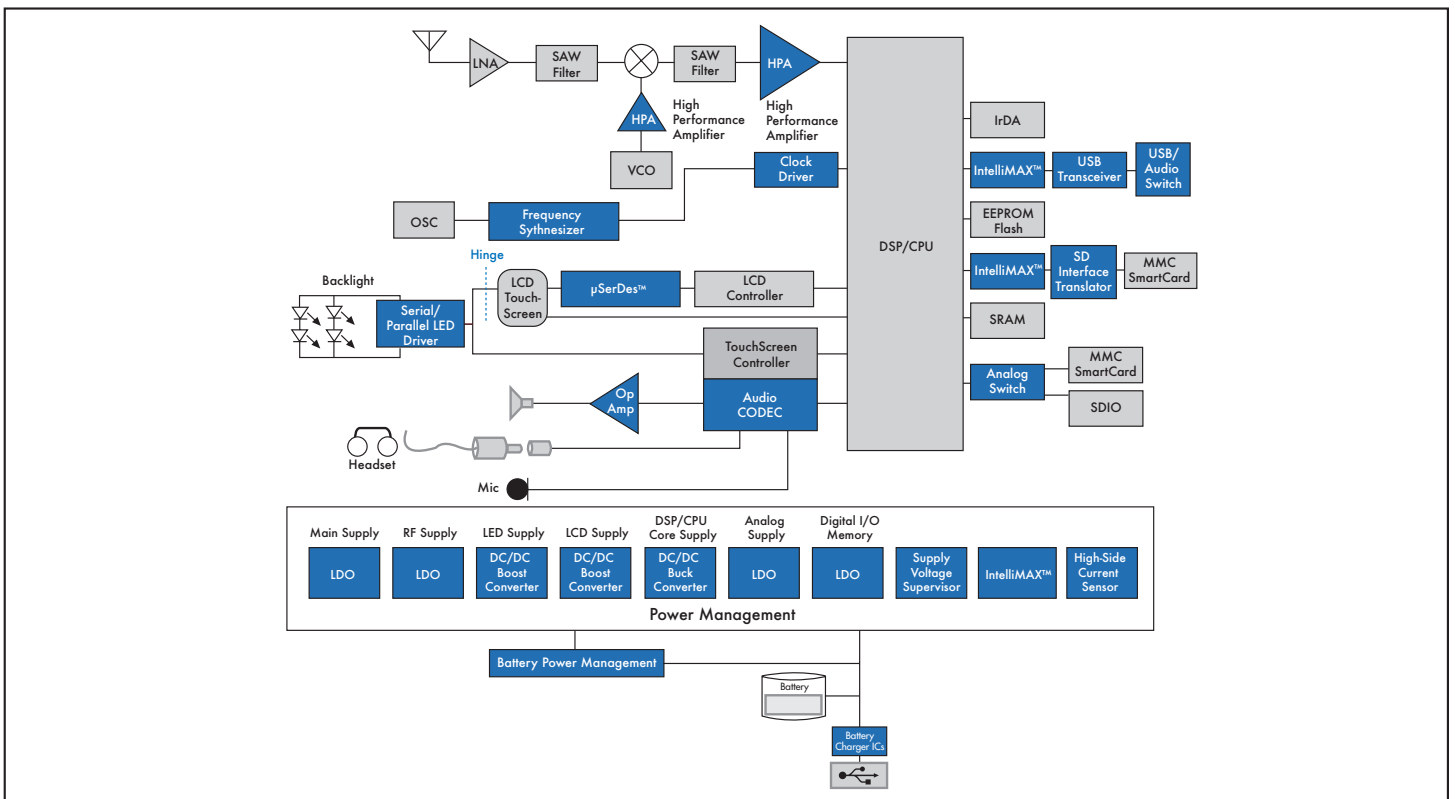
MP3 播放器



PDA










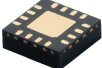
便携游戏设备



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作为高性能半导体行业的世界领军企业，飞兆半导体致力于优化系统功率，其产品具有最小尺寸、最高可靠性和最佳散热性能的顶级封装设计。飞兆半导体的所有产品均符合 RoHS 标准（在电子电器设备中限制使用某些有害物质的标准），并采用合格的无铅替代镀层材料。

飞兆封装技术概述

封装类型	封装图像	尺寸 (mm)	封装类型	封装图像	尺寸 (mm)
MLP-8 Lead Dual		3 x 1.9	SSOT-6		3 x 3
MLP-8 Lead Single		3 x 1.9	SOT23-5		1.6 x 2.9
MicroPak™ 6-/8-/10-Lead		访问 fairchildsemi.com/packaging 获取尺寸信息	WL-CSP 4-ball		0.76 x 0.76
MicroPak2™		1 x 1	WL-CSP 5-ball		1 x 1.37
MLP-6		3 x 3	WL-CSP 6-ball		1 x 1.5
MLP (MicroFET™)-6		1.6 x 1.6, 1.6 x 2, 2 x 2 & 2 x 3	WL-CSP 8-ball		1.21 x 1.21
DQFN 14-/16-/20-Lead		2.5 x 3, 2.5 x 3.5, & 2.5 x 4.5	WL-CSP 16-ball		1.6 x 1.6
SC70-6		2 x 2.1	M-CSP		精确尺寸需参照晶圆尺寸
SC70-5		2 x 2.1	UMLP-6		2 x 2
SOIC-14		14-Leads	UMLP-10		1.4 x 1.8
SO-8		5 x 6	UMLP-16		1.8 x 2.6

应用说明书	
应用编号	说明
AN-1030	采用 MOSFET 负载开关的设计
AN-5015	USB111A 收发器与技术规格兼容
AN-5052	USB 2.0 兼容系统中的物理层实现
AN-5053	具有同步像素接口 FIN212/224 的使用
AN-5054	低噪声无铅封装促进便携设计
AN-5055	便携与超低功耗 TinyLogic®
AN-5058	µSerDes™ 系列常见问题 (FAQ)
AN-5059	LVDS 技术解决困扰移动电话照相机和显示器的典型 EMI 问题
AN-5061	µSerDes 布局指南
AN-5064	超级便携设计用低 I _{CCR} 模拟开关
AN-5066	采纳高速 USB 转换开关改善用户设计
AN-6011	FAN2011 系列器件计算与仿真工具
AN-6019	飞兆半导体模拟开关产品 ESD 测试方法评述
AN-6022	采用 FSUB30 符合 USB 2.0 故障条件要求
AN-6031	µSerDes FIN324C 的 SPI 读写用法
AN-6047	FIN324C 复位与待机
AN-7007	采用 FPF200X 集成开关产品系列简化便携电源管理与保护电路
AN-7525	MicroFET™ 封装的 PCB 焊盘设计与表贴指南
AN-7526	单通道 MicroFET™ 3x2 功率 MOSFET 的推荐焊盘与热性能
AN-7527	双通道 MicroFET™ 3x2 功率 MOSFET 的推荐焊盘与热性能
AN-8005	FMS6151 NoSAG/SAG 的应用说明
AN-8017	FMS6151 NoSAG/SAG 的应用说明
AN-8019	移动系统中集成转换速率控制开关优化 1V 核
AN-8020	采用集成负载开关和降压变换器组合的 USB MODEM 可靠设计
AN-8031	采用 FSA2000 MUTE 功能降低音频“卡嗒声”与“砰啪声”
AN-8032	FSA2000 快速入门指南
AN-9006	照相机闪光灯应用中 IGBT 使用说明
AN-9073	高速 USB 转换开关的布局思路
AN-9074	双高速 USB 接口应用中 FSA800 和 FSA805 的使用
AN-9716	复位定时器
AN-9718	FXMA2102 I ² C 转换器
AN-9720	FAN5400 系列 PWM 电池充电器的特征: 供电路径实现权衡
AN-9721	FAN5400 系列 PWM 电池充电器的特征: 锂离子电池充电基本原理
MS-502	TinyLogic® 介绍
MS-503	TinyLogic® HS/HST 与 UHS 系列特性
MS-545	TinyLogic® 订购须知、封装与物理尺寸

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- PFC + PWM Combination (Combo) Controllers

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- AC-DC Linear Regulators
- Flyback & Forward PWM Controllers
- Flyback & Forward PWM Controllers with Integrated MOSFET
- LLC Resonant & Asymmetric Half Bridge PWM Controllers
- LLC Resonant & Asymmetric Half Bridge PWM Controllers with Integrated MOSFETs
- Primary-Side Regulation CV/CC Controllers
- Primary-Side Regulation CV/CC Controllers with Integrated MOSFET
- Standard PWM Controllers
- Supervisory/Monitor ICs
- Synchronous Rectifier Controllers

Non-Isolated DC-DC

- Charge-pump Converters
- DrMOS FET plus Driver Multi-Chip Modules
- Multi-phase Controllers
- Step-down Controllers (External Switch)
- Step-down Regulators, Non-Synchronous (Integrated Switch)
- Step-down Regulators, Synchronous (Integrated Switch)
- Step-up Regulators (Integrated Switch)

MOSFET and IGBT Gate Drivers

- 3-Phase Drivers
- Half-Bridge Drivers
- High- & Low-Side Drivers
- High-Side Drivers
- Low-Side Drivers
- Synchronous Rectifier Drivers

Voltage Regulators

- LDOs
- Positive Voltage Linear Regulators
- Negative Voltage Linear Regulators
- Shunt Regulators

Motion Control

- BLDC/PMSM Controller
- Motion-SPM™ (Smart Power Modules)
- PFC SPM® (Smart Power Modules)

Diodes & Rectifiers

- Bridge Rectifiers
- Circuit Protection & Transient Voltage Suppressors (TVS)
- Diacs
- Rectifiers
- Schottky Diodes & Rectifiers
- Small Signal Diodes
- Zener Diodes

IGBTs

- Discrete IGBTs
- Ignition IGBTs

MOSFETs

- Discrete MOSFETs
- Level-Shifted Load Switches
- MOSFET/Schottky Combos

Transistors

- BJTs
- Darlingtons
- Digital/Bias-Resistor Transistors
- JFETs
- RF Transistors
- Small Signal Transistors

Advanced Load Switches

- Advanced Current Limited Load Switches
- Slew Rate Controlled Load Switches

Battery Management

- Battery Charger ICs
- Current Sensing

Ground Fault Interrupt (GFI) Controllers

SIGNAL PATH ICs

Amplifiers & Comparators

- Comparators
- Current Sensing
- Operational Amplifiers

Audio Amplifiers

- Audio Headphone Amplifiers
- Audio Subsystems

Battery Protection ICs

Interface

- LVDS
- Serializers/Deserializers (µSerDes™)
- USB Transceivers

Signal Conditioning

- Video Filter Drivers
- Video Switch Matrix/Multiplexers

Signaling, Sensing & Timing

Switches

- Analog/Audio Switches
- Bus Switches
- Camera Switches
- Multimedia Switches
- USB Switches
- Video Switches

OPTOELECTRONICS

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- Low Voltage, High Performance
- High Speed Logic Gate
- High Performance Transistor
- IGBT/MOSFET Gate Driver
- Specific Function

Infrared

- Emitting Diodes
- Photo Sensors
- Reflective Sensors
- Optical Interrupt Switches

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- Isolated Error Amplifier
- Phototransistor Output - DC Sensing Input
- Phototransistor Output - AC Sensing Input
- Photo Darlington Output

Solid State Relay Optocouplers

- Solid State Relay

TRIAC Driver Optocouplers

- Random Phase TRIAC Driver
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- HID ICs
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