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POWER ICS - SLEW RATE CONTROL

Part Number	Status	Description	Configuration	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
SiC32201	New	0.45 mΩ, integrated OR-ing switch with OR-ing controller, lossless current sense, and temperature report	Parallelable	-	-	9.0	18	0	0.45	0	1800	No	Yes	100	PowerPAK® MLP66-40L	6.0 x 6.0 x 0.75
SiC32201	New	0.45 mΩ, integrated OR-ing switch with OR-ing controller, lossless current sense, and temperature report	Parallelable	-	-	9.0	18	0	0.45	0	1800	No	Yes	100	PowerPAK® MLP66-40L	6.0 x 6.0 x 0.75
SiP32101	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active low with internal pull-down resistor	Single	1 000	500	2.3	5.5	8	5.1	0.11	0.14	No	Yes	7	WCSP12	1.3 x 1.7 x 0.5
SiP32102	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN	Single	1 000	500	2.3	5.5	8	5.1	0.11	0.14	No	Yes	7	WCSP12	1.3 x 1.7 x 0.5

Part Number	Status	Description	Configuration	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
		active high with internal pull-down resistor														
SiP32103	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active low with internal pull-up resistor	Single	1 000	800	2.3	5.5	8	5.1	4	8.2	No	Yes	7	WCSP12	1.3 x 1.7 x 0.5
SiP32104	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active low	Single	1 000	800	2.3	5.5	8	5.1	0.11	0.14	No	Yes	7	WCSP12	1.3 x 1.7 x 0.5
SiP32408	Active	1.1 V to 5.5 V, 42 mΩ, 2.5 ms rise time, bidirectional off isolation	Single	2500	1800	1.1	5.5	45	42	10.5	105	No	Yes	3.5	TDFN4	1.2 x 1.6 x 0.5
SiP32409	Active	1.1 V to 5.5 V, 42 mΩ, 2.5 ms rise time, bidirectional off isolation, output discharge	Single	2500	1800	1.1	5.5	45	42	10.5	105	Yes	Yes	3.5	TDFN4	1.2 x 1.6 x 0.5
SiP32411	Active	1.1 V to 5 V, 62 mΩ, 150 μs rise time, output discharge	Single	150	140	1.1	5.5	66	62	6.7	71	Yes	Yes	2.4	TDFN4	1.2 x 1.6 x 0.5
		105						101	1.8					SC-70-6	2.0 x 2.0 x 0.5	

Part Number	Status	Description	Configuration	Slew Rate Time (μ s)	On Delay Time (μ s)	V_{IN} Min. (V)	V_{IN} Max. (V)	$R_{DS(on)}$ at V_{IN} Min. (m Ω)	$R_{DS(on)}$ at V_{IN} Max. (m Ω)	I_Q at V_{IN} Min. (μ A)	I_Q at V_{IN} Max. (μ A)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
SiP32413	Active	Dual switch, 1.1 V to 5.5 V, 150 μ s rise time, reversed EN logic	Dual	150	140	1.1	5.5	66	62	6.7	71	No	Yes	2.4	TDFN8	2.0 x 2.0 x 0.5
SiP32414	Active	1.1 V to 5.5 V, 150 μ s rise time, output discharge	Dual	150	140	1.1	5.5	66	62	6.7	71	Yes	Yes	2.4	TDFN8	2.0 x 2.0 x 0.5
SiP32416	Active	1.1 V to 5.5 V, 2.5 ms rise time, output discharge	Dual	2500	2000	1.1	5.5	66	62	6.7	71	Yes	Yes	2.4	TDFN8	2.0 x 2.0 x 0.5
SiP32419	Active	6 V to 28 V, 56 m Ω , programmable current limit and slew rate, latch-off on fault	Single	Adjustable	550	6.0	28	56	56	139	172	No	No	4.5	DFN33-10L	3.0 x 3.0 x 0.9
SiP32429	Active	6 V to 28 V, 56 m Ω , programmable current limit and slew rate, auto-retry on fault	Single	Adjustable	550	6.0	28	56	56	139	172	No	No	4.5	DFN33-10L	3.0 x 3.0 x 0.9
SiP32430	Active	6 V to 28 V, 99 m Ω , programmable current limit and slew rate, auto retry on fault	Single	Adjustable	80	6.0	28	99	99	148	185	No	No	3.2	DFN33-10L	3.0 x 3.0 x 0.9

Part Number	Status	Description	Configuration	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
SiP32431DN	Active	1.5 V to 5.5 V, 105 mΩ, 10 pA IQ, bidirectional off isolation, EN active high	Single	140	20	1.5	5.5	350	105	0.000002	0.00004	No	Yes	1.4	TDFN4	1.2 x 1.6 x 0.5
SiP32431DR	Active	1.5 V to 5.5 V, 147 mΩ, 10 pA IQ, bidirectional off isolation, EN active high	Single	140	20	1.5	5.5	395	147	0.000002	0.00004	No	Yes	1.4	SC-70-6	2.0 x 2.0 x 0.5
SiP32432DN	Active	1.5 V to 5.5 V, 105 mΩ, 10 pA IQ, bidirectional off isolation, EN active low	Single	140	20	1.5	5.5	350	105	0.000002	0.00004	No	Yes	1.4	TDFN4	1.2 x 1.6 x 0.5
SiP32432DR	Active	1.5 V to 5.5 V, 147 mΩ, 10 pA IQ, bidirectional off isolation, EN active low	Single	140	20	1.5	5.5	395	147	0.000002	0.00004	No	Yes	1.4	SC-70-6	2.0 x 2.0 x 0.5
SiP32451	Active	0.9 V to 2.5 V, 55 mΩ, bidirectional off isolation, fast turn on / off, output discharge	Single	20	0.4	0.9	2.5	56	54	4	32	Yes	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32452	Active	0.9 V to 2.5 V, 55 mΩ, bidirectional off isolation, fast turn on / off	Single	20	0.4	0.9	2.5	56	54	4	32	No	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32453	Active	0.9 V to 2.5 V, 55 mΩ,	Single	20	0.4	0.9	2.5	56	54	4	32	No	Yes	1.2	WCSP4	0.8 x 0.8 x

Part Number	Status	Description	Configuration	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
		bidirectional off isolation, fast turn on and 98 μs turn off delay														0.5
SiP32454	Active	0.8 V to 2.5 V, 28 mΩ, 1.5 ms rise time, output discharge	Single	1000	600	0.8	2.5	30	28	4	32	Yes	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32455	Active	0.8 V to 2.5 V, 28 mΩ, 1.5 ms rise time	Single	1000	600	0.8	2.5	30	28	4	32	No	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32458	Active	1.5 V to 5.5 V, 20 mΩ, bidirectional off isolation	Single	3000	500	1.5	5.5	30	20	1.5	5.8	No	Yes	3	WCSP6	1.0 x 1.5 x 0.5
SiP32459	Active	1.5 V to 5.5 V, 20 mΩ, output discharge	Single	3000	500	1.5	5.5	30	20	1.5	5.8	Yes	No	3	WCSP6	1.0 x 1.5 x 0.5
SiP32460	Active	1.2 V to 5.5 V, 50 mΩ, 200 μs rise time, bidirectional off isolation	Single	170	130	1.2	5.5	95	50	1.2	5.5	No	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32461	Active	1.2 V to 5.5 V, 50 mΩ, 200 μs rise time, bidirectional off isolation, output discharge	Single	170	130	1.2	5.5	95	50	1.2	5.5	Yes	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32462	Active	1.2 V to 5.5 V, 50 mΩ, 7.5 μs rise time, bidirectional off	Single	7.5	-	1.2	5.5	95	50	1.2	5.5	No	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5

Part Number	Status	Description	Configuration	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
		isolation														
SiP32467	Active	1.2 V to 5.5 V, 50 mΩ, EN active low, bidirectional off isolation	Single	170	130	1.2	5.5	95	50	1.8	7.8	No	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32468	Active	1.2 V to 5.5 V, 50 mΩ, EN active low, bidirectional off isolation, output discharge	Single	170	130	1.2	5.5	95	50	1.8	7.8	Yes	Yes	1.2	WCSP4	0.8 x 0.8 x 0.5
SiP32475	Active	1.2 V to 5.5 V, 47 mΩ, 200 μs rise time, bidirectional off isolation, output discharge	Single	162	138	1.2	5.5	92	47	1.2	5.5	Yes	Yes	2	μDFN-4L	1.0 x 1.0 x 0.35
SiP32501	Active	0.9 V to 2.5 V, 66 mΩ, 9.8 μs rise time, load switch	Single	9.8	0.05	0.9	2.5	69	66	5	40	No	Yes	1.2	TDFN4	1.2 x 1.6 x 0.5
SiP32508	Active	1.1 V to 5.5 V, 44 mΩ, 2.5 ms rise time, bidirectional off isolation	Single	2500	1800	1.1	5.5	47	44	10.5	105	No	Yes	3	TSOT23-6	3.0 x 2.9 x 1.0
SiP32509	Active	1.1 V to 5.5 V, 44 mΩ, 2.5 ms rise time, bidirectional off isolation, output discharge	Single	2500	1800	1.1	5.5	47	44	10.5	105	Yes	Yes	3	TSOT23-6	3.0 x 2.9 x 1.0

Part Number	Status	Description	Configuration	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Output Discharge (Y/N)	Reverse Blocking (Y/N)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
SiP32510	Active	1.2 V to 5.5 V, 44 mΩ, 1.6 ms rise time with bidirectional off isolation, output discharge	Single	1600	400	1.2	5.5	47	44	10.5	105	Yes	Yes	3	TSOT23-6	3.0 x 2.9 x 1.0
SiP4282	Active	1.8 V to 5.5 V, 105 mΩ, 100 μs rise time, with UVLO	Single	140	20	1.8	5.5	230	105	1	2.5	Yes	No	1.2	TDFN4	1.2 x 1.6 x 0.5
															PowerPAK SC-75-6	0.75 x 1.6 x 0.5
SiP4282A	Active	1.5 V to 5.5 V, 105 mΩ, 100 μs rise time	Single	140	20	1.5	5.5	350	105	0.00001	0.00005	Yes	No	1.2	TDFN4	1.2 x 1.6 x 0.5
															PowerPAK SC-75-6	0.75 x 1.6 x 0.5
SiP32434A		6 A, 33 mΩ, 2.8 V to 23 V, programmable OVP and current limit, latch-off on fault	Single	Adjustable	190	2.8	28	33	33	180	250	N	N	6	DFN33-10L	3.0 x 3.0 x 0.9
SiP32434B		6 A, 33 mΩ, 2.8 V to 23 V, programmable OVP and current limit, auto retry on fault	Single	Adjustable	190	2.8	28	33	33	180	250	N	N	6	DFN33-10L	3.0 x 3.0 x 0.9

POWER ICS - CURRENT LIMIT

Part Number	Status	Description	Slew Rate Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Min. (mΩ)	R _{DS(on)} at V _{IN} Max. (mΩ)	Reverse Blocking (Y/N)	Cont. Current (A)	Current Limit Min. (A)	Current Limit Max. (A)	Abs. Max. Input Voltage (V)	Package	Package Size (W, L, H) (mm)
SiP32419	Active	6 V to 28 V, 56 mΩ, programmable current limit and slew rate, latch-off on fault	Adjustable	6.0	28	56	56	No	4.5	0.75	3.5	30	DFN33-10L	3.0 x 3.0 x 0.9
SiP32429	Active	6 V to 28 V, 56 mΩ, programmable current limit and slew rate, auto-retry on fault	Adjustable	6.0	28	56	56	No	4.5	0.75	3.5	30	DFN33-10L	3.0 x 3.0 x 0.9
SiP32430	Active	6 V to 28 V, 99 mΩ, programmable current limit and slew rate, auto retry on fault	Adjustable	6.0	28	99	99	No	3.2	0.1	1.0	30	DFN33-10L	3.0 x 3.0 x 0.9

POWER ICS - TRUE BI-DIRECTIONAL

Part Number	Status	Description	Slew Rate Time (μs)	On Delay Time (μs)	V _{IN} Min. (V)	V _{IN} Max. (V)	R _{DS(on)} at V _{IN} Max. (mΩ)	I _Q at V _{IN} Min. (μA)	I _Q at V _{IN} Max. (μA)	Cont. Current (A)	Package	Package Size (W, L, H) (mm)
SiP32101	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active low with internal pull-down resistor	1 000	500	2.3	5.5	5.1	0.11	0.14	7	WCSP12	1.3 x 1.7 x 0.5
SiP32102	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active high with internal pull-down resistor	1 000	500	2.3	5.5	5.1	0.11	0.14	7	WCSP12	1.3 x 1.7 x 0.5
SiP32103	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active low with internal pull-up resistor	1 000	800	2.3	5.5	5.1	4	8.2	7	WCSP12	1.3 x 1.7 x 0.5
SiP32104	Active	2.3 V to 5.5 V, 6.5 mΩ, 7 A, bidirectional switch, EN active low	1 000	800	2.3	5.5	5.1	0.11	0.14	7	WCSP12	1.3 x 1.7 x 0.5

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