

microBUCK

Технические характеристики

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POWER ICS - MICROBUCK® - VOLTAGE REGULATOR

Part Number	Status	Description	V _{IN} Min. (V)	V _{IN} Max. (V)	V _{OUT} Min. (V)	V _{OUT} Max. (V)	Cont. Current (A)	Switch Freq. Min. (kHz)	Switch Freq. Max. (kHz)	Pre-Bias Oper. (Y/N)	Internal Bias Reg. (Y/N)	Compensation	Enable (Y/N)	P _{GOOD} (Y/N)	Overcurrent Protection	Protection	Light Load Mode	Peak Eff. (%)	Package	Package Size (W, L, H) (mm)
SiC437A	New	12 A, 4.5 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with ultrasonic mode and internal 5 V bias	4.5	28	0.6	0.9 x V _{IN}	12	300	1000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable ultrasonic	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC437B	New	12 A, 4.5 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with power save mode and internal 5 V bias	4.5	28	0.6	0.9 x V _{IN}	12	300	1000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC437C	New	12 A, 3 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with ultrasonic mode, requires external 5 V bias	3.0	28	0.6	0.9 x V _{IN}	12	300	1000	Yes	No	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable ultrasonic	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC437D	New	12 A, 3 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with power save mode, requires external 5 V bias	3.0	28	0.6	0.9 x V _{IN}	12	300	1000	Yes	No	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC450	New	4.5 V to 20 V input 40 A microBUCK DC/DC converter with PMBus	4.5	20	0.3	12	40	300	1500	yes	yes	internal	yes	yes	yes	OVP, OCP, UVP/SCP, OTP, UVLO	yes	96	PowerPAK MLP34-57	5.0 x 7.0 x 0.75

Part Number	Status	Description	V _{IN}	V _{IN}	V _{OUT}	V _{OUT}	Cont. Current (A)	Switch	Switch	Pre-	Internal	Compensation	Enable (Y/N)	P _{GOOD} (Y/N)	Overcurrent Protection	Protection	Light Load Mode	Peak Eff. (%)	Package	Package Size (W, L, H) (mm)
			Min. (V)	Max. (V)	Min. (V)	Max. (V)		Freq. Min. (kHz)	Freq. Max. (kHz)	Bias Oper. (Y/N)	Bias Reg. (Y/N)									
SiC451	New	4.5 V to 20 V input 25 A microBUCK DC/DC converter with PMBus	4.5	20	0.3	12	25	300	1500	yes	yes	internal	yes	yes	yes	OVP, OCP, UVP/SCP, OTP, UVLO	yes	96	PowerPAK MLP34-57	5.0 x 7.0 x 0.75
SiC453	New	4.5 V to 20 V input 15 A microBUCK DC/DC converter with PMBus	4.5	20	0.3	12	15	300	1500	yes	yes	internal	yes	yes	yes	OVP, OCP, UVP/SCP, OTP, UVLO	yes	96	PowerPAK MLP34-57	5.0 x 7.0 x 0.75
SiC466	New	10 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	60	0.8	15	10	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	97	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC467	New	6 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	60	0.8	15	6	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC468	New	4 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	60	0.8	15	4	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC469	New	2 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	60	0.8	15	2	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC471	New	12 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	0.92 x VIN	12	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC472	New	8 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	0.92 x VIN	8	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75

Part Number	Status	Description	V _{IN}	V _{IN}	V _{OUT}	V _{OUT}	Cont. Current (A)	Switch	Switch	Pre-	Internal	Compensation	Enable (Y/N)	P _{GOOD} (Y/N)	Overcurrent Protection	Protection	Light Load Mode	Peak Eff. (%)	Package	Package Size (W, L, H) (mm)
			Min. (V)	Max. (V)	Min. (V)	Max. (V)		Freq. Min. (kHz)	Freq. Max. (kHz)	Bias Oper. (Y/N)	Bias Reg. (Y/N)									
SiC473	New	5 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	0.92 x V _{IN}	5	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC474	New	3 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	0.92 x V _{IN}	3	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC476	New	12 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	15	12	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Power save	97	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC477	New	8 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	15	8	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Power save	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC478	New	5 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	15	5	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Power save	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC479	New	3 A, 4.5 V to 55 V input, 100 kHz to 2 MHz, synchronous microBUCK regulator	4.5	55	0.8	15	3	100	2000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Power save	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC431	Active	24A, 3V to 24V in, up to 1MHz, Synch. Buck Regulator	3.0	24	0.6	20	24	300	1000	Y	Y	Internal	Y	Y	Y	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable Powersave/Ultrasonic	97	PowerPak MLP 44-24L	4.0 x 4.0 x 0.75
SiC401A	Active	15 A, 3 V to 17 V input, scalable synchronous buck regulator, ultrasonic mode	3.0	17	0.6	5.5	15	200	1000	Yes	Yes	Not required	Yes	Yes	Programmable	OVP, OCP, UVP/SCP, OTP, UVLO	Ultrasonic	95	PowerPAK MLP32-55G	5.0 x 5.0 x 0.85

Part Number	Status	Description	V _{IN}	V _{IN}	V _{OUT}	V _{OUT}	Cont. Current (A)	Switch	Switch	Pre-	Internal	Compensation	Enable (Y/N)	P _{GOOD} (Y/N)	Overcurrent Protection	Protection	Light Load Mode	Peak Eff. (%)	Package	Package Size (W, L, H) (mm)
			Min. (V)	Max. (V)	Min. (V)	Max. (V)		Freq. Min. (kHz)	Freq. Max. (kHz)	Bias Oper. (Y/N)	Bias Reg. (Y/N)									
SiC401B	Active	15 A, 3 V to 17 V input, scalable synchronous buck regulator, powersave mode	3.0	17	0.6	5.5	15	200	1000	Yes	Yes	Not required	Yes	Yes	Programmable	OVP, OCP, UVP/SCP, OTP, UVLO	Powersave	95	PowerPAK MLP32-55G	5.0 x 5.0 x 0.85
SiC402A	Active	10 A, 3 V to 28 V input, scalable synchronous buck regulator, ultrasonic mode	3.0	28	0.6	5.5	10	200	1000	Yes	Yes	Not required	Yes	Yes	Programmable	OVP, OCP, UVP/SCP, OTP, UVLO	Ultrasonic	95	PowerPAK MLP32-55G	5.0 x 5.0 x 0.85
SiC402B	Active	10 A, 3 V to 28 V input, scalable synchronous buck regulator, powersave mode	3.0	28	0.6	5.5	10	200	1000	Yes	Yes	Not required	Yes	Yes	Programmable	OVP, OCP, UVP/SCP, OTP, UVLO	Powersave	95	PowerPAK MLP32-55G	5.0 x 5.0 x 0.85
SiC403A	Active	6 A, 3 V to 28 V input, scalable synchronous buck regulator, ultrasonic mode	3.0	28	0.6	5.5	6	200	1000	Yes	Yes	Not required	Yes	Yes	Programmable	OVP, OCP, UVP/SCP, OTP, UVLO	Ultrasonic	93	PowerPAK MLP32-55G	5.0 x 5.0 x 0.85
SiC403B	Active	6 A, 3 V to 28 V input, scalable synchronous buck regulator, powersave mode	3.0	28	0.6	5.5	6	200	1000	Yes	Yes	Not required	Yes	Yes	Programmable	OVP, OCP, UVP/SCP, OTP, UVLO	Powersave	93	PowerPAK MLP32-55G	5 x 5 x 0.85
SiC438A	Active	8 A, 4.5 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with ultrasonic mode and internal 5 V bias	4.5	28	0.6	0.9 x V _{IN}	8	300	1000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable ultrasonic	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC438B	Active	8 A, 4.5 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with power save mode and internal 5 V bias	4.5	28	0.6	0.9 x V _{IN}	8	300	1000	Yes	Yes	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	97	PowerPAK MLP44-24L	4 x 4 x 0.75

Part Number	Status	Description	V _{IN}	V _{IN}	V _{OUT}	V _{OUT}	Cont. Current (A)	Switch	Switch	Pre-	Internal	Compensation	Enable (Y/N)	P _{GOOD} (Y/N)	Overcurrent Protection	Protection	Light Load Mode	Peak Eff. (%)	Package	Package Size (W, L, H) (mm)
			Min. (V)	Max. (V)	Min. (V)	Max. (V)		Freq. Min. (kHz)	Freq. Max. (kHz)	Bias Oper. (Y/N)	Bias Reg. (Y/N)									
SiC438C	Active	8 A, 3 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with ultrasonic mode, requires external 5 V bias	3.0	28	0.6	0.9 x VIN	8	300	1000	Yes	No	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable ultrasonic	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC438D	Active	8 A, 3 V to 28 V input, 300 kHz, 500 kHz, 750 kHz, 1 MHz, synchronous buck regulator with power save mode, requires external 5 V bias	3.0	28	0.6	0.9 x VIN	8	300	1000	Yes	No	Internal	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave	97	PowerPAK MLP44-24L	4 x 4 x 0.75
SiC461	Active	10 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous buck regulator	4.5	60	0.8	0.92 x VIN	10	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC462	Active	6 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous buck regulator	4.5	60	0.8	0.92 x VIN	6	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC463	Active	4 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous buck regulator	4.5	60	0.8	0.92 x VIN	4	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiC464	Active	2 A, 4.5 V to 60 V input, 100 kHz to 2 MHz, synchronous buck regulator	4.5	60	0.8	0.92 x VIN	2	100	2000	Yes	Yes	External	Yes	Yes	Yes	OVP, OCP, UVP/SCP, OTP, UVLO	Selectable powersave / ultrasonic	98	PowerPAK MLP55-27L	5 x 5 x 0.75
SiP12107	Active	3 A, 2.8 V to 5.5 V input, 4 MHz synchronous buck regulator	2.8	6	0.6	5.5	3	200	4000	Yes	Yes	External	Yes	Yes	Fixed	OVP, OCP, UVP/SCP, OTP, UVLO	Powersave	95	QFN16-33G	3.0 x 3.0 x 0.8

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SiP12108	Active	5 A, 2.8 V to 5.5 V input, 4 MHz synchronous buck regulator with UVP	2.8	5.5	0.6	5.5	5	200	4000	Yes	Yes	External	Yes	Yes	Fixed	OVP, OCP, UVP/SCP, OTP, UVLO	Powersave	95	QFN16-33G	3.0 x 3.0 x 0.8
SiP12108A	Active	5 A, 2.8 V to 5.5 V, 4 MHz synchronous buck regulator with output UVP disabled	2.8	5.5	0.6	5.5	5	200	4000	Yes	Yes	External	Yes	Yes	Fixed	OVP, OCP, UVP/SCP, OTP, UVLO	Powersave	95	QFN16-33G	3.0 x 3.0 x 0.8
SiP12109	Active	4 A, 4.5 V to 15 V input, 1.5 MHz synchronous buck regulator	4.5	15	0.6	5.5	4	200	1500	Yes	Yes	External	Yes	Yes	Fixed	OVP, OCP, OTP, SCP, UVLO	Powersave	95	QFN16-33G	3.0 x 3.0 x 0.8
SiP12110	Active	6 A, 4.5 V to 15 V input, 1.5 MHz synchronous buck regulator	4.5	15	0.6	5.5	6	200	1500	Yes	Yes	External	Yes	Yes	Fixed	OVP, OCP, OTP, SCP, UVLO	Powersave	95	QFN16-33G	3.0 x 3.0 x 0.8
SiP12116	Active	3 A, 4.5 V to 15 V input, current mode constant on-time, synchronous buck regulator	4.5	15	0.6	5.5	3	600	600	Yes	No	Integrated	Yes	Yes	Fixed	OCP, OTP, UVLO	n/a	95	DFN10-33C	3 x 3 x 0.9
SiP12117	Active	3 A, 4.5 V to 15 V input, current mode constant on-time, synchronous buck regulator	4.5	15	0.6	5.5	3	600	600	Yes	No	Integrated	Yes	Yes	Fixed	OCP, OTP, UVLO	Powersave	95	DFN10-33C	3 x 3 x 0.9

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