
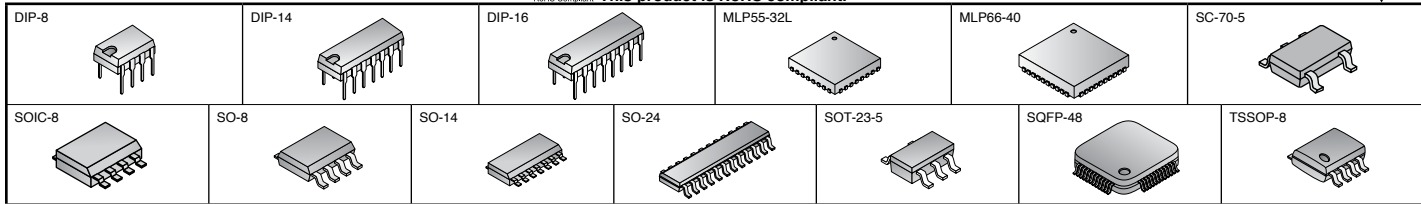


SILICONIX Power Management ICs

 This product is RoHS compliant.



INTEGRATED POWER STAGE

- Features:**
- Integrated Gen III MOSFETs and DrMOS compliant gate driver IC
 - Enables Vcore switching at 1MHz
 - Low ringing on the VSWH pin reduces EMI
 - Pin compatible with DrMOS 6 x 6 version 3.0
 - Tri-state PWM input function prevents negative output voltage swing
 - 5V logic levels on PWM
 - Automatic skip mode operation (SMOD) for light load efficiency
 - Built-in bootstrap schottky diode
 - Thermal shutdown warning flag



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Input Voltage (V)		Control Input Voltage (V)		Control Input Current (Typ @ 5) (µA)	PWM Rising Threshold (Typ) (V)	PWM Failing Threshold (Typ) (V)	PWM Input Current (µA)	Price Each					
			Min.	Max.	Min.	Max.					1	100	500	1000		
Surface Mount																
781-SIC769CD-E3	SIC769CD-T1-E3	Power Pak MLP66-40	-0.3	20	4.5	5.5	400	3.8	1.0	250	8.35	4.95	4.05	3.15		
781-SIC762CD-T1-GE3	SIC762CD-T1-GE3	Power Pak MLP66-40	-0.3	30	-0.3	7.0	350	3.9	1.0	250	9.75	5.77	4.72	3.67		
781-SIC779CD-T1-GE3	SIC779CD-T1-GE3	MLP66-40	-0.3	20	-0.3	7	600	8	8	-40 to 125	8.36	4.95	4.05	3.15		

SYNCHRONOUS BUCK REGULATORS

- Features (SIC413):**
- Integrated PWM controller and Gen III trench MOSFETs
 - Quick and easy single chip converter
 - Integrated current sense
 - Cycle by cycle over-current protection
 - Built-in bootstrap diode
 - Output over-voltage protection
 - Under voltage lockout
 - Thermal shutdown
 - Soft start
 - Break-before-make operation
- Features (SIC417):**
- Integrated bootstrap diode
 - Integrated configurable 150mA LDO with bypass logic
 - Temperature compensated current limit
 - Pseudo fixed-frequency adaptive on-time control
 - All ceramic solution enabled
 - Independent enable pin for switcher and LDO
 - Programmable input UVLO threshold
 - Selectable ultra-sonic power-save mode
 - Internal soft-start and soft-shutdown
 - 1% internal reference voltage
 - Power good output and over voltage protection



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Input Volt. Range (V)	Output Voltage Range (V)	Continuous Output Current (A)	Operating Frequency	Highside/Lowside RDS _{ON} (mΩ)	Peak Efficiency (Typ) (V)	Operating Temp. (°C)	Price Each				
										1	100	500	1000	
Surface Mount														
781-SIC413CB-E3	SIC413CB-T1-E3	SOIC-8	4.75 to 26	0.6 to 13.2	4	500 kHz	35/19	93%	-25 to +125	4.17	2.17	2.02	1.57	
781-SIC401ACD-T1-GE3	SIC401ACD-T1-GE3	PowerPAK MLP55-32L	3 to 17	0.6 to 5.5	15	200kHz to 1MHz	-	93%	-40 to +85	2.89	1.71	1.40	1.09	
781-SIC401BCD-T1-GE3	SIC401BCD-T1-GE3	PowerPAK MLP55-32L	3 to 17	0.6 to 5.5	15	200kHz to 1MHz	-	93%	-40 to +85	2.89	1.71	1.40	1.09	
781-SIC402ACD-T1-GE3	SIC402ACD-T1-GE3	PowerPAK MLP55-32L	3 to 28	0.6 to 5.5	10	200kHz to 1MHz	-	95%	-40 to +85	2.78	1.64	1.34	1.04	
781-SIC402BCD-T1-GE3	SIC402BCD-T1-GE3	PowerPAK MLP55-32L	3 to 28	0.6 to 5.5	10	200kHz to 1MHz	-	95%	-40 to +85	2.78	1.64	1.34	1.04	
781-SIC417CD-E3	SIC417CD-T1-E3	MLPQ55-32	3.0 to 28	0.5 to 5.5	10	200kHz to 1MHz	27/9	95%	-25 to +125	6.74	3.99	3.26	2.54	
781-SIP12107DMP-T1-GE3	SIP12107DMP-T1-GE3	MLP-16L	2.8-5.5	0.6-5	3	4MHz	56/33	95	-65 to 150	.72	.60	.56	.50	

SWITCHMODE CONTROLLERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Input Voltage (V)		Supply Voltage (V)		Output Voltage (V)			Switching Frequency (Min) (MHz)	Price Each				
			Min.	Max.	Min.	Max.	Min.	Typ.	Max.		1	100	500	1000	
Surface Mount															
781-SI9114ADY-E3	SI9114ADY-E3	SO-14	15	200	9.5	16.5	3.94	4.00	4.06	0.45	4.80	3.20	2.39	2.37	
Thru-Hole															
781-SI9120DJ-E3	SI9120DJ-E3	DIP-16	15	450	9.5	13.5	3.88	4.00	4.12	1	1.86	1.58	1.48	1.37	

SWITCHMODE REGULATORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Input Voltage (V)		Supply Voltage (V)		Output Voltage (V)			Switching Frequency (Min) (MHz)	Price Each				
			Min.	Max.	Min.	Max.	Min.	Typ.	Max.		1	100	500	1000	
Thru-Hole															
781-SI9100DJ02-E3	SI9100DJ02-E3	DIP-14	10	70	9.5	13.5	3.92	4.00	4.08	1	2.44	2.07	1.95	1.77	

BUS INTERFACE-DRIVER AND RECEIVER

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Supply Voltage Range (Max) (V)	Bus Load Resistance (Max) (Ω)	Continuous Output Current (Max) (mA)	Features	Price Each			
							1	100	500	1000
Surface Mount										
781-SI9200EY-E3	SI9200EY-E3	SO-8	-0.3 to 12	60	±100	Survives ground shorts and transients, single power supply, Intel 82526 CAN compatible	2.60	1.81	1.40	1.18

POWER MOSFET DRIVERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Supply Voltage Range (Max) (V)	Output Drive Capacity	Input Drive Logic	Features	Protection	Price Each				
								1	100	500	1000	
Surface Mount												
781-SI9912DY-T1-E3	SI9912DY-T1-E3	SO-8	4.5 to 30	2N-Ch	5V TTL/CMOS	250kHz to 1MHz switching, freq shutdown	Undervoltage shoot through	2.51	1.75	1.36	1.14	
Thru-Hole												
781-SI9910DJ-E3	SI9910DJ-E3	DIP-8	-0.3 to +18	1N-Ch	12V Logic	dv/dt, di/dt control	Short circuit, over current & under voltage	2.70	1.88	1.34	1.15	

MOTOR CONTROLLERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Supply Voltage Range (Max) (V)	Output Drive Capacity	Input Drive Logic	Features	Protection	Price Each				
								1	100	500	1000	
Surface Mount												
781-SI9986CY-T1-E3	SI9986CY-T1-E3	SO-8	3.8 to 13.2	0.5A	TTL/CMOS	PWM, saturated	Shoot through	3.93	3.36	3.07	2.28	
781-SI9986DY-T1-E3	SI9986DY-T1-E3	SO-8	3.8 to 13.2	0.5A	TTL/CMOS	PWM, saturated	Shoot through	4.47	3.25	2.60	2.20	
781-SI9988DQ-T1-E3	SI9988DQ-T1-E3	TSSOP-8	3.8 to 13.2	0.6A	TTL/CMOS	PWM, saturated	Shoot through	2.52	2.46	2.32	2.22	
781-SI9978DW-E3	SI9978DW-E3	SO-24	20 to 40	4N-Ch	TTL/CMOS	PWM, brake, DC operation	Over current, under voltage	3.57	3.54	3.42	3.16	
781-SI9979CS-E3	SI9979CS-E3	SQFP-48	20 to 40	6N-Ch	TTL/CMOS	PWM hall sensor, computation, DC operation	Over current, under voltage, Commutation error	7.48	6.36	5.98	5.42	

LOW DROP-OUT VOLTAGE REGULATORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Output Voltage (V)	Output Current (A)	Input Voltage (V)		Drop-out Voltage (Max) (mV)	Line Regulation (Max) (%/V)	Shut-Down Supply Current (Max) (µA)	Price Each				
					Min.	Max.				1	100	500	1000	
Fixed Surface Mount														
781-SIP21106DR33E3	SIP21106DR-33E3	SC-70-5	3.3	.15	2.2	6.0	135	0.2	1	.28	.244	.213	.213	