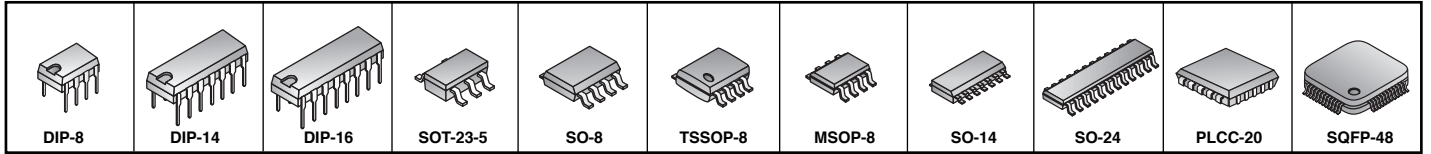


# SILICONIX Power Management ICs



## SWITCHMODE CONTROLLERS



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Input Voltage		Supply Voltage		Output Voltage		Switching Frequency (Min)(MHz)	Price Each				
			(Min)(V)	(Max)(V)	(Min)(V)	(Max)(V)	(Min)(V)	(Max)(V)		1	100	500	1000	
<b>Surface Mount</b>														
781-SI9111DY-E3	SI9111DY-E3	SO-14	10	120	9.5	13.5	3.60	4.00	4.40	1	2.31	1.87	1.76	1.60
781-SI9114ADY-E3	SI9114ADY-E3	SO-14	15	200	9.5	16.5	3.94	4.00	4.06	0.45	3.36	2.72	2.56	2.32
781-SI9113DY-T1-E3	SI9113DY-T1-E3	SO-14	23.5	200	10	14	1.275	1.30	1.325	0.5	1.87	1.51	1.42	1.29
<b>Thru-Hole</b>														
781-SI9120DJ-E3	SI9120DJ-E3	DIP-16	15	450	9.5	13.5	3.88	4.00	4.12	1	1.95	1.58	1.49	1.35

## SWITCHMODE REGULATORS



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Input Voltage (Min)(V)	Input Voltage (Max)(V)	Supply Voltage (Min)(V)	Supply Voltage (Max)(V)	Output Voltage (Typ)(V)	Output Voltage (Max)(V)	Switching Frequency (Min)(MHz)	Price Each				
										1	100	500	1000	
<b>Surface Mount</b>														
781-SI9100DN02-E3	SI9100DN02-E3	PLCC-20	10	70	9.5	13.5	3.92	4.00	4.08	1	2.92	2.36	2.22	2.02
<b>Thru-Hole</b>														
781-SI9100DJ02-E3	SI9100DJ02-E3	DIP-14	10	70	9.5	13.5	3.92	4.00	4.08	1	2.56	2.07	1.95	1.77

## BUS INTERFACE-DRIVER AND RECEIVER



RoHS Compliant

The SI9200EY is designed to interface between the Intel 82526 CAN controller and the physical bus to provide drive capability to the bus and differential receive capability to the controller. It is designed to absorb typical electrical transients on the bus which may occur in an automotive or industrial application, and protect itself against any abnormal bus conditions. The transmitter will be disabled during these conditions and will be re-enabled when the abnormal condition is cleared. The SI9200EY is built using the Siliconix BiC/DMOS process. This process supports CMOS, DMOS, and isolated bipolar transistors and uses an epitaxial layer to prevent latchup. The bus line pins are diode protected and can be driven beyond the VDD to ground range. The SI9200EY is offered in the space efficient 8-pin high-density surface-mount plastic package and is specified over the automotive temperature range (-40 to 125°C).

For quantities of 2000 and up, 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
<b>Surface Mount</b>										
781-SI9200EY-E3	SI9200EY-E3	SO-8	- 0.3 to 12	60	+/-100	Survives ground shorts & transients, single power supply, Intel 82526 CAN compatible	2.18	1.77	1.66	1.51

## POWER MOSFET DRIVERS



RoHS Compliant

For quantities of 2000 and up, 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
<b>Surface Mount</b>											
781-SI9910DY-T1-E3	SI9910DY-T1-E3	SO-8	- 0.3 to + 18	1 N-Ch	12V Logic	dv/dt, di/dt control	short circuit, over current, under voltage	1.45	1.17	1.10	1.00
781-SI9912DY-T1-E3	SI9912DY-T1-E3	SO-8	4.5 to 30	2 N-Ch	5V TTL/CMOS	250kHz to 1MHz switching, freq shutdown	undervoltage shoot through	1.70	1.38	1.30	1.17
781-SI9913DY-T1-E3	SI9913DY-T1-E3	SO-8	4.5 to 30	2 N-Ch	5V TTL/CMOS	250kHz to 1MHz switch, sync sw enable	undervoltage shoot through	1.70	1.38	1.30	1.17
<b>Thru-Hole</b>											
781-SI9910DJ-E3	SI9910DJ-E3	DIP-8	- 0.3 to + 18	1 N-Ch	12V Logic	dv/dt, di/dt control	short circuit, over current & under voltage	1.62	1.31	1.23	1.12

## MOTOR CONTROLLERS



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Supply Voltage Range (Max)(V)	Output Current (Max)(A)	Input Drive Logic	Features	Protection	Price Each			
								1	100	500	1000
<b>Surface Mount</b>											
781-SI9986CY-T1-E3	SI9986CY-T1-E3	SO-8	3.8 to 13.2	0.5A	TTL/CMOS	PWM, saturated	Shoot through	2.71	2.19	2.06	1.87
781-SI9986DY-T1-E3	SI9986DY-T1-E3	SO-8	3.8 to 13.2	0.5A	TTL/CMOS	PWM, saturated	Shoot through	2.81	2.28	2.14	1.94
781-SI9988DQ-T1-E3	SI9988DQ-T1-E3	TSSOP-8	3.8 to 13.2	0.6A	TTL/CMOS	PWM, saturated	Shoot through	3.23	2.62	2.46	2.23
781-SI9987CY-T1-E3	SI9987CY-T1-E3	SO-8	3.8 to 13.2	1A	TTL/CMOS	PWM, saturated	Shoot through	3.02	2.45	2.30	2.09
781-SI9987DY-T1-E3	SI9987DY-T1-E3	SO-8	3.8 to 13.2	1A	TTL/CMOS	PWM, saturated	Shoot through	3.78	3.06	2.88	2.61
781-SI9961ACY-E3	SI9961ACY-E3	SO-24	12	1A	Analog	Linear current mode	under voltage	6.34	5.13	4.83	4.38
781-SI9978DW-E3	SI9978DW-E3	SO-24	20 to 40	4 N-Ch	TTL/CMOS	PWM, brake, DC operation	Over current, under voltage	4.85	3.93	3.70	3.35
781-SI9979CS-E3	SI9979CS-E3	SQFP-48	20 to 40	6 N-Ch	TTL/CMOS	PWM hall sensor, computation, DC operation	Over current, under voltage, commutation error	7.85	6.36	5.98	5.42
781-SI9979DS-E3	SI9979DS-E3	SQFP-48	20 to 40	6 N-Ch	TTL/CMOS	PWM hall sensor, computation, DC operation	Over current, under voltage, commutation error	7.85	6.36	5.98	5.42

## LOW DROP-OUT VOLTAGE REGULATOR



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Siliconix Part No.	Package	Output Voltage (V)	Output Current (A)	Input Voltage		Drop-out Voltage (Max)(mV)	Line Regulation (Max)(%/V)	Shut-Down Supply Current (Max)(uA)	Price Each			
					(Min)(V)	(Max)(V)				1	100	500	1000
<b>Adjustable Surface Mount</b>													
781-SI9181DQ-AD-E3	SI9181DQ-AD-T1-E3	TSSOP-8	1.5 to 5	0.35	2.0	6.0	575	0.18	1	.48	.39	.37	.33
781-SI9182DH-AD-E3	SI9182DH-AD-T1-E3	MSOP-8	1.5 to 5	0.25	2.0	6.0	450	0.18	1	.67	.54	.51	.46
781-SI9183DT-AD-E3	SI9183DT-AD-T1-E3	SOT-23-3	1.5 to 5	0.15	2.0	6.0	380.0	0.18	1	.29	.24	.22	.20
<b>Fixed Surface Mount</b>													
781-SI9181DQ-30-E3	SI9181DQ-30-T1-E3	TSSOP-8	3.0	0.35	2.0	6.0	575	0.18	1	.48	.39	.37	.33
781-SI9181DQ-33-E3	SI9181DQ-33-T1-E3	TSSOP-8	3.3	0.35	2.0	6.0	575	0.18	1	.48	.39	.37	.33
781-SI9181DQ-50-E3	SI9181DQ-50-T1-E3	TSSOP-8	5.0	0.35	2.0	6.0	575	0.18	1	.48	.39	.37	.33
781-SI9182DH-30-E3	SI9182DH-30-T1-E3	MSOP-8	3.0	0.25	2.0	6.0	450	0.18	1	.67	.54	.51	.46
781-SI9182DH-33-E3	SI9182DH-33-T1-E3	MSOP-8	3.3	0.25	2.0	6.0	450	0.18	1	.67	.54	.51	.46
781-SI9182DH-50-E3	SI9182DH-50-T1-E3	MSOP-8	5.0	0.25	2.0	6.0	450	0.18	1	.67	.54	.51	.46
781-SI9183DT-30-E3	SI9183DT-30-T1-E3	SOT-23-5	3.0	0.15	2.0	6.0	380	0.18	1	.29	.24	.22	.20
781-SI9183DT-33-E3	SI9183DT-33-T1-E3	SOT-23-5	3.3	0.15	2.0	6.0	380	0.18	1	.29	.24	.22	.20
781-SI9183DT-50-E3	SI9183DT-50-T1-E3	SOT-23-5	5.0	0.15	2.0	6.0	380	0.18	1	.29	.24	.22	.20