

Voltage References

Mfr.'s Type			Description	V _{ref} (V)	I _{range}	Drift (ppm/°C)	V Tolerance (%)	No. of Leads	Temperature Range (°C)
Metal Can	SOIC	TO-92							
LM113H	—	—	Reference Diode	1.20	500 µA to 20 mA	100	±5.0	H2	−55 to +125
LM138AH-2.5	—	—	Reference Diode	2.50	400 µA to 10 mA	72	±1.0	H3/4	−55 to +125
LM138H-2.5	—	—	Reference Diode	2.50	400 µA to 10 mA	72	±2.0	H3/4	−55 to +125
LM238AH-5.0	—	—	Reference Diode	5.00	400 µA to 10 mA	72	±1.0	H3/4	−40 to +85
LM236H-2.5	—	—	Reference Diode	2.50	400 µA to 10 mA	72	±2.0	H3/4	−40 to +85
—	—	LM285BXZ-2.5	Micropower Voltage Reference Diode	2.50	10 µA to 20 mA	30	±1.0	Z3	−40 to +85
—	—	LM285BYZ-2.5	Micropower Voltage Reference Diode	2.50	10 µA to 20 mA	50	±1.0	Z3	−40 to +85
—	LM285M-1.2	—	Micropower Voltage Reference Diode	1.20	10 µA to 20 mA	150	±1.0	M8	−55 to +125
LM313H	—	—	Reference Diode	1.20	500 µA to 20 mA	1100	±5.0	H2	−40 to +85
—	—	LM329BZ	Precision Reference	6.90	600 µA to 15 mA	20	±5.0	Z3	0 to +70
—	—	LM329CZ	Precision Reference	6.90	600 µA to 15 mA	50	±5.0	Z3	0 to +70
—	—	LM329DZ	Precision Reference	6.90	600 µA to 15 mA	100	±5.0	Z3	0 to +70
—	LM336BM-2.5	LM336BZ-2.5	Reference Diode	2.50	400 µA to 10 mA	54	±2.0	M8, Z3	0 to +70
—	LM336BM-5.0	LM336BZ-5.0	Reference Diode	5.00	400 µA to 10 mA	54	±2.0	M8, Z3	0 to +70
—	—	LM336Z-2.5	Reference Diode	2.50	400 µA to 10 mA	54	±4.0	Z3	0 to +70
—	LM336M-5.0	LM336Z-5.0	Reference Diode	5.00	400 µA to 10 mA	54	±4.0	M8, Z3	0 to +70
—	—	LM385BZ-1.2	Micropower Voltage Reference Diode	1.20	10 µA to 20 mA	150	±1.0	Z3	0 to +70
—	LM385BM-2.5	LM385BZ-2.5	Micropower Voltage Reference Diode	2.50	10 µA to 20 mA	150	±1.0	M8, Z3	0 to +70
—	—	LM385M	Adjustable Micropower Voltage Reference	1.24 to 5.3	10 µA to 20 mA	150	±1.0	M8, Z3	0 to +70
—	LM385M-1.2	LM385Z-1.2	Micropower Voltage Reference Diode	1.20	10 µA to 20 mA	150	±1.0	M8, Z3	0 to +70
—	LM385M-2.5	LM385Z-2.5	Micropower Voltage Reference Diode	2.50	10 µA to 20 mA	150	±1.0	M8, Z3	0 to +70
LM399H	—	—	Precision Reference	7.00	500 µA to 15 mA	2, 5, 50	±5.0	H4	0 to +70
—	—	LM4040AIZ-10.0	Precision Micropower Shunt Voltage Reference	10.00	60 µA to 15 mA	100	±0.1	Z3	−40 to +85
—	—	LM4040AIZ-2.5	Precision Micropower Shunt Voltage Reference	2.50	60 µA to 15 mA	100	±0.1	Z3	−40 to +85
—	—	LM4040AIZ-5.0	Precision Micropower Shunt Voltage Reference	5.00	60 µA to 15 mA	100	±0.1	Z3	−40 to +85

Temperature Sensors

Mfr.'s Type		Description	V _{CC} (V)	Accuracy T (min.) to T (max.) Uncalibrated	Output Scale	No. of Leads	Temperature Range (°C)
Metal Can	TO-92						
LM34CH	LM34CZ	Precision Fahrenheit Temperature Sensor	5 to 30	±3.0°F	10 mV/°F	H3/4, Z3	−40° to 230°F
LM34CAH	LM34CAZ	Precision Fahrenheit Temperature Sensor	5 to 30	±2.0°F	10 mv/°F	H3/4, Z3	−40° to 230°F
LM34DH	LM34DZ	Precision Fahrenheit Temperature Sensor	5 to 30	±4.0°F	10 mV/°F	H3/4, Z3	32° to 212°F
LM35CH	LM35CZ	Precision Centigrade Temperature Sensor	5 to 30	±1.5°C	10 mV/°F	H3/4, Z3	−40° to 110°C
—	LM35CAZ	Precision Centigrade Temperature Sensor	5 to 30	±1.0°C	10 mV/°F	Z3	−40° to 110°C
LM35DH	LM35DZ	Precision Centigrade Temperature Sensor	4 to 10	±2.0°C	10 mV/°F	H3/4, Z3	0° to 100°C
LM135H	—	Precision Centigrade Temperature Sensor	1 to 40	±1.3°C	10 mV/°K	H3/4	−55° to 150°C
LM135AH	—	Precision Centigrade Temperature Sensor	1 to 40	±1.3°C	10 mV/°K	H3/4	−55° to 150°C
—	LM234Z-3	3-Terminal Adjustable Current Source	5 to 40	±3.0°C	{TFMV}	Z3	−25° to 100°C
LM334H	LM334Z	3-Terminal Adjustable Current Source	5 to 40	±3.0°C	{TFMV}	H3/4, Z3	0° to 70°C
LM335AH	LM335AZ	Precision Temperature Sensor	1 to 40	±1.3°C	10 mV/°K	H3/4, Z3	−40° to 100°C
—	LM335Z	Precision Temperature Sensor	1 to 40	±1.3°C	10 mV/°K	Z3	−40° to 100°C

Simple Switcher™ Power Converters

Mfr.'s Type		Current (A)	Standard Operating Modes	Input Voltage (V)	Output Voltage (V)	Switching Frequency (kHz)	Efficiency (%)	No. of Leads	Temperature Range (T _J °C)
PDIP	TO-220								
LM2574HVN-5.0	—	0.5	Step-Down	4.0 to 60	5.00	52	77 to 88	N8	−40 to +125
LM2574N-15	—	0.5	Step-Down	4.0 to 40	15.00	52	77 to 88	N8	−40 to +125
LM2574N-5.0	—	0.5	Step-Down	4.0 to 40	5.00	52	77 to 88	N8	−40 to +125
—	LM2575HVT-12	1.0	Step-Down	4.0 to 60	12.00	52	77 to 88	T5	−40 to +125
—	LM2575HVT-5.0	1.0	Step-Down	4.0 to 60	5.00	52	77 to 88	T5	−40 to +125
—	LM2575HVT-ADJ	1.0	Step-Down	4.0 to 60	1.23 to 57	52	77 to 88	T5	−40 to +125
—	LM2575T-12	1.0	Step-Down	4.0 to 40	12.00	52	77 to 88	T5	−40 to +125
—	LM2575T-15	1.0	Step-Down	4.0 to 40	15.00	52	77 to 88	T5	−40 to +125
—	LM2575T-5.0	1.0	Step-Down	4.0 to 40	5.00	52	77 to 88	N16, T5	−40 to +125
LM2575N-ADJ	LM2575T-ADJ	1.0	Step-Down	4.0 to 40	1.23 to 37	52	77 to 88	N16, T5	−40 to +125
—	LM2576T-12	3.0	Step-Down	4.0 to 40	12.00	52	77 to 88	T5	−40 to +125
—	LM2576T-5.0	3.0	Step-Down	4.0 to 40	5.00	52	77 to 88	T5	−40 to +125
—	LM2576T-ADJ	3.0	Step-Down	4.0 to 40	1.23 to 37	52	77 to 88	T5	−40 to +125
—	LM2577T-12	3.0	Step-Up, Flyback	3.5 to 40	12.00	52	80	N16, T5	−40 to +125
—	LM2577T-15	3.0	Step-Up, Flyback	3.5 to 40	15.00	52	80	T5	−40 to +125
LM2577N-ADJ	LM2577T-ADJ	3.0	Step-Up, Flyback	3.5 to 40	Adj.	52	80	N16, T5	−40 to +125

Switching Regulators

Mfr.'s Type		Output Current (A)	Standard Operating Modes	Input Voltage (V)	Output Voltage (V)	Switching Frequency (kHz)	Efficiency (%)	No. of Leads	Temperature Range (T _J °C)
SOIC	PDIP								
—	LM78S40CN	1.50	Step-Up, Step-Down, Invert	2.5 to 50	Adjustable	0.1 to 100	75	N16	−40 to +125
—	LM3578AN	0.75	Step-Up, Step-Down, Flyback, Invert	2.0 to 40	Adjustable	0.001 to 100	—	N8	0 to +125
—	LM2524DN	0.20	Step-Up, Step-Down, Flyback, Invert	55.0 to 40	Adjustable	1 to 550	—	N16	−40 to +125
LM3524DM	—	0.20	Step-Up, Step-Down, Flyback, Invert	5.0 to 40	Adjustable	1 to 350	—	M16	0 to +125
—	LMC7660IN	0.05	Invert	1.5 to 10	−1.5 to −10	10	90	N8	−40 to +125

Sample/Hold and Voltage to Frequency Converters

Mfr.'s Type		Description	V _{CC} (V)	Acquisition (ns)	Accuracy (%)	No. of Leads	Temperature Range (°C)
Metal Can	PDIP						
LF398H	LF398N	Monolithic Sample and Hold Circuit	±(5 to 18)	4000	0.02	H8, N8	0 to +70
—	LF398AN	Monolithic Sample and Hold Circuit	±(5 to 18)	4000	0.01	N8	0 to +70
—	LM231N	Precision Voltage-to-Frequency Converter	—	—	—	N8	−20 to +85
—	LM331N	Precision Voltage-to-Frequency Converter	—	—	—	N8	0 to +70