

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 | | | | | | | |
| LM113H | — | Reference Diode | 1.20 | 500 µA to 20 mA | 100 | ±5.0 | H2 | -55 to +125 |
| LM136AH-2.5 | — | Reference Diode | 2.50 | 400 µA to 10 mA | 72 | ±1.0 | H3/4 | -55 to +125 |
| LM136H-2.5 | — | Reference Diode | 2.50 | 400 µA to 10 mA | 72 | ±2.0 | H3/4 | -55 to +125 |
| LM236AH-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 |
| — | — | Micropower Voltage Reference Diode | 2.50 | 10 µA to 20 mA | 30 | ±1.0 | Z3 | -40 to +85 |
| — | LM285BZ-2.5 | Micropower Voltage Reference Diode | 2.50 | 10 µA to 20 mA | 50 | ±1.0 | Z3 | -40 to +85 |
| — | LM285BYZ-2.5 | Micropower Voltage Reference Diode | 2.50 | 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 |
| — | — | Precision Reference | 6.90 | 600 µA to 15 mA | 20 | ±5.0 | Z3 | 0 to +70 |
| — | — | Precision Reference | 6.90 | 600 µA to 15 mA | 50 | ±5.0 | Z3 | 0 to +70 |
| — | — | Precision Reference | 6.90 | 600 µA to 15 mA | 100 | ±5.0 | Z3 | 0 to +70 |
| — | LM336BZ-2.5 | Reference Diode | 2.50 | 400 µA to 10 mA | 54 | ±2.0 | M8, Z3 | 0 to +70 |
| — | LM336BZ-5.0 | Reference Diode | 5.00 | 400 µA to 10 mA | 54 | ±2.0 | M8, Z3 | 0 to +70 |
| — | — | Reference Diode | 2.50 | 400 µA to 10 mA | 54 | ±4.0 | Z3 | 0 to +70 |
| — | LM336Z-2.5 | Reference Diode | 2.50 | 400 µA to 10 mA | 54 | ±4.0 | M8, Z3 | 0 to +70 |
| — | — | 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 |
| — | LM385BZ-2.5 | Micropower Voltage Reference Diode | 2.50 | 10 µA to 20 mA | 150 | ±1.0 | M8, Z3 | 0 to +70 |
| — | — | 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 | Micropower Voltage Reference Diode | 1.20 | 10 µA to 20 mA | 150 | ±1.0 | M8, Z3 | 0 to +70 |
| — | LM385M-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 |
| — | — | Precision Micropower Shunt Voltage Reference | 10.00 | 60 µA to 15 mA | 100 | ±0.1 | Z3 | -40 to +85 |
| — | — | Precision Micropower Shunt Voltage Reference | 2.50 | 60 µA to 15 mA | 100 | ±0.1 | Z3 | -40 to +85 |
| — | — | 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 |
| — | — | 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 | LM350Z | 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, °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 |

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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, °C) |
|-------------|-----------|--------------------|-------------------------------------|-------------------|--------------------|---------------------------|----------------|--------------|---------------------------|
| SOIC | PDIP | | | | | | | | |
| — | LM78540CN | 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 |

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