

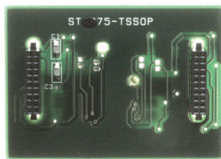
## SENSOR ICS

## PRESSURE SENSORS (CONT.)

| Mfg. Part No.  | Sensitivity | Operating Pressure | Case Style  | Stock No. | Price Each |
|----------------|-------------|--------------------|-------------|-----------|------------|
| Differential   |             |                    |             |           |            |
| ● MPXC2011DT1  | 2.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 20C2917   | ---        |
| ● MPX2010DP    | 2.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 07F9816   | 14.46      |
| ● MPX2010D     | 2.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 07F9815   | 9.83       |
| ● MPXV2010GP   | 2.5mV/kPa   | 0 kPa to 10 kPa    | SOP-8 Pins  | 75C3889   | 8.76       |
| ● MPXV2010DP   | 2.5mV/kPa   | 0 kPa to 10 kPa    | SOP-8 Pins  | 75C3888   | 7.96       |
| ● MPX10D       | 3.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 07F9771   | 7.33       |
| ● MPX10DP      | 3.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 07F9772   | 10.57      |
| Gauge          |             |                    |             |           |            |
| ● MPXM2202GS   | 0.2mV/kPa   | 0 kPa to 200 kPa   | MPAK-5 Pins | 26C1093   | ---        |
| ● MPX2200GP    | 0.2mV/kPa   | 0 kPa to 200 kPa   | SIP-4 Pins  | 48F6770   | 16.74      |
| ● MPX2202GP    | 0.2mV/kPa   | 0 kPa to 200 kPa   | SIP-4 Pins  | 29C6803   | 8.06       |
| ● MPXV2202GP   | 0.2mV/kPa   | 0 kPa to 200 kPa   | SOP-8 Pins  | 75C3895   | ---        |
| ● MPXM2102GS   | 0.4mV/kPa   | 0 kPa to 100 kPa   | MPAK-4 Pins | 25C4138   | 8.05       |
| ● MPXV2102GP   | 0.4mV/kPa   | 0 kPa to 100 kPa   | SOP-8 Pins  | 75C3893   | ---        |
| ● MPXM2053GS   | 0.8mV/kPa   | 0 kPa to 50 kPa    | MPAK-5 Pins | 25C4136   | 6.03       |
| ● MPX2050GSX   | 0.8mV/kPa   | 0 kPa to 50 kPa    | SIP-4 Pins  | 07F9832   | ---        |
| ● MPX2050GP    | 0.8mV/kPa   | 0 kPa to 50 kPa    | SIP-4 Pins  | 48F6767   | ---        |
| ● MPXM2010GS   | 2.5mV/kPa   | 0 kPa to 10 kPa    | MPAK-5 Pins | 25C4134   | 6.58       |
| ● MPXM2010GST1 | 2.5mV/kPa   | 0 kPa to 10 kPa    | MPAK-4 Pins | 75C3876   | ---        |
| ● MPX2010GP    | 2.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 07F9817   | 15.22      |
| ● MPX2010GSX   | 2.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 07F9819   | 9.83       |
| ● MPX10GP      | 3.5mV/kPa   | 0 kPa to 10 kPa    | SIP-4 Pins  | 48F6765   | 8.05       |
| ● MPXV10GC7U   | 3.5mV/kPa   | 0 kPa to 10 kPa    | SOP-8 Pins  | 95B4475   | 8.53       |

PIM\_19531

## TEMPERATURE SENSORS

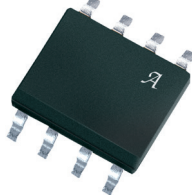


The LM335 is a precision temperature sensor which can be easily calibrated. It operates as a 2-terminal Zener and the breakdown voltage is directly proportional to the absolute temperature 10 mV/K

| Mfg. Part No. | Supply Voltage | Output Type | Temp. Min | Temp. Max | Accuracy | Case Style | Stock No. | Price Each |
|---------------|----------------|-------------|-----------|-----------|----------|------------|-----------|------------|
| 1-9+          |                |             |           |           |          |            |           |            |
| ● LM335AZ     | ---            | Voltage     | -40 °C    | +100 °C   | ± 1°C    | 3-TO-92    | 89K1311   | ---        |
| ● LM335Z      | ---            | Voltage     | -40 °C    | +100 °C   | ± 1°C    | 3-TO-92    | 89K1312   | ---        |
| ● LM234DT     | 1V to 40V      | Current     | -25 °C    | 100 °C    | ± 3%     | 8-SO       | 89K1294   | 2.14       |

PIM\_83735

## ACS71X FULLY INTEGRATED, HALL EFFECT-BASED LINEAR CURRENT SENSORS



## Features

- Low-noise analog signal path
- Device bandwidth is set via the new FILTER pin
- 5 µs output rise time in response to step input current
- 50 kHz bandwidth
- Total output error 1.5% at TA = 25°C, and 4% at -40°C to 85°C
- Small footprint, low-profile SOIC8 package
- 1.2 mΩ internal conductor resistance
- 2.1 kVrms minimum isolation voltage from pins 1-4 to pins 5-8
- 5.0 V, single supply operation
- Output voltage proportional to AC or DC currents
- Factory-trimmed for accuracy
- Extremely stable output offset voltage
- Nearly zero magnetic hysteresis
- Ratiometric output from supply voltage

The Allegro® ACS712 and ACS713 provide economical and precise solutions for AC (ACS712) or DC (ACS713) current sensing in industrial, automotive, commercial, and communications systems. The device package allows for easy implementation by the customer. Typical applications include motor control, load detection and management, switched-mode power supplies, and overcurrent fault protection.

| Mfg. Part No.       | Supply Voltage | Quiescent Current | Bandwidth | Case Style | Stock No. | Tape Cut |
|---------------------|----------------|-------------------|-----------|------------|-----------|----------|
| 1-24+               |                |                   |           |            |           |          |
| ● ACS712ELCTR-05B-T | 4.5V to 5.5V   | 8 mA              | 80 kHz    | 8-SOIC     | 27M3644   | 5.64     |
| ● ACS712ELCTR-30A-T | ---            | 10 mA             | 80 kHz    | 8-SOIC     | 30M9922   | 5.64     |

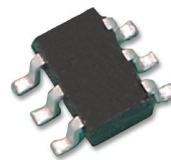
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## ACS71X FULLY INTEGRATED, HALL EFFECT-BASED LINEAR CURRENT SENSORS (CONT.)

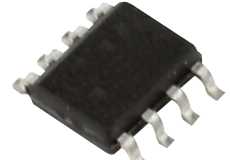
| Mfg. Part No.       | Supply Voltage | Quiescent Current | Bandwidth | Case Style | Stock No. | Tape Cut |
|---------------------|----------------|-------------------|-----------|------------|-----------|----------|
| 1-24+               |                |                   |           |            |           |          |
| ● ACS713ELCTR-20A-T | ---            | ---               | 80 kHz    | 8-SOIC     | 30M9923   | 5.64     |
| ● ACS713ELCTR-30A-T | ---            | ---               | 80 kHz    | 8-SOIC     | 30M9924   | ---      |
| ● ACS712ELCTR-20A-T | 4.5V to 5.5V   | 10 mA             | 80 kHz    | 8-SOIC     | 31M3133   | 5.64     |

PIM\_90404

## 74LVC SERIES LOW-VOLTAGE CMOS



SOT



SOIC

## Features:

- Count Rate: 150MHz
- Direction: Up
- Logic Type: Binary Counter
- Mounting Type: Surface Mount
- Number of Bits per Element: 4
- Timing: Synchronous
- Trigger Type: Positive Edge

Designed for 3V power supplies, feature 0.8µ CMOS process technology, 24mA current.

74LVC (low voltage CMOS) logic devices provide the low power consumption of CMOS, offers direct LVTTTL level interfacing, supports live insertion, and is guaranteed for industrial operating temperatures. The LVC family is an excellent, cost-effective solution for migrating from 5VHCMS, ACT, and FAST into a lower power, lower voltage system.

| Mfg. Part No.                                | Case Style | Supply Voltage | Stock No. | Tape Cut |
|--|------------|----------------|-----------|----------|
| 1-9+   |            |                |           |          |
| Buffer, Inverting                            |            |                |           |          |
| ● SN74LVC06AD                                | SOIC-14    | 1.65 V-3.6 V   | 67K2859   | 0.14     |
| ● SN74LVC1G06DBVR                            | SOT-23-5   | 1.65 V-5.5 V   | 76C4073   | ---      |
| Buffer, Non Inverting                        |            |                |           |          |
| ● SN74LVC244AN                               | DIP-20     | 1.65 V-5.5 V   | 67K1104   | 0.24     |
| ● SN74LVC1G125DCKR                           | SC-70-5    | 1.65 V-5.5 V   | 76C4082   | 0.07     |
| ● SN74LVC1G125DCKT                           | SC-70-5    | 1.65 V-5.5 V   | 22H0380   | 0.90     |
| ● SN74LVC1G07DCKT                            | SC-70-5    | 1.65 V-5.5 V   | 22H0378   | ---      |
| ● SN74LVC1G126DCKR                           | SC-70-5    | 1.65 V-5.5 V   | 76C4084   | 0.07     |
| ● SN74LVC1G07DCKR                            | SC-70-5    | 1.65 V-5.5 V   | 76C4075   | ---      |
| ● SN74LVC2G07DCKR                            | SC-70-6    | 1.65 V-5.5 V   | 76C4196   | 0.06     |
| ● SN74LVC07AD                                | SOIC-14    | 1.65 V-3.6 V   | 76C4050   | 0.14     |
| ● SN74LVC541ADW                              | SOIC-20    | 1.65 V-5.5 V   | 36K2049   | 0.32     |
| ● SN74LVC1G125DBVR                           | SOT-23-5   | 1.65 V-5.5 V   | 74C1414   | 0.11     |
| ● SN74LVC1G07DBVR                            | SOT-23-5   | 1.65 V-5.5 V   | 39C2931   | 0.10     |
| ● SN74LVC1G07DBVT                            | SOT-23-5   | 1.65 V-5.5 V   | 32H6344   | ---      |
| ● SN74LVC1G125DBVT                           | SOT-23-5   | 1.65 V-5.5 V   | 32H6348   | ---      |
| ● SN74LVC1G126DBVT                           | SOT-23-5   | 1.65 V-5.5 V   | 32H6351   | ---      |
| ● SN74LVC1G125DBVT                           | SOT-23-5   | 1.65 V-5.5 V   | 84M8632   | ---      |
| ● SN74LVC2G07DBVR                            | SOT-23-6   | 1.65 V-5.5 V   | 76C4195   | 0.14     |
| ● SN74LVC2G34DBVR                            | SOT-23-6   | 1.65 V-5.5 V   | 76C4213   | ---      |
| ● SN74LVC2G125DCTR                           | SSOP-8     | 1.65 V-5.5 V   | 76C4199   | ---      |
| ● SN74LVC16244ADL                            | SSOP-48    | 1.65 V-3.6 V   | 74K3952   | ---      |
| ● SN74LVC125APWR                             | TSSOP-14   | 1.65 V-3.6 V   | 35K0816   | 0.14     |
| ● SN74LVC244APWR                             | TSSOP-20   | 1.65 V-3.6 V   | 10C2401   | 0.41     |
| ● SN74LVC244APW                              | TSSOP-20   | 1.65 V-3.6 V   | 02H5433   | ---      |
| ● SN74LVC16244ADGGR                          | TSSOP-48   | 1.65 V-3.6 V   | 76C4150   | 0.34     |
| ● SN74LVC16244ADGGR                          | TSSOP-48   | 1.65 V-3.6 V   | 35K0818   | 0.65     |
| ● SN74LVC3G34DCUR                            | VSSOP-8    | 1.65 V-5.5 V   | 76C4270   | ---      |
| ● SN74LVC2G125DCUR                           | VSSOP-8    | 1.65 V-5.5 V   | 76C4200   | 0.04     |
| Buffer, Non Inverting, Buffer, Non Inverting |            |                |           |          |
| ● SN74LVC125AD                               | SOIC-14    | 1.65 V-3.6 V   | 94B6303   | 0.14     |
| ● SN74LVC244ADW                              | SOIC-20    | 1.65 V-3.6 V   | 76C4240   | ---      |
| Buffer, Schmitt Trigger                      |            |                |           |          |
| ● SN74LVC1G17DCKT                            | SC-70-5    | 1.65 V-5.5 V   | 22H0382   | 0.22     |
| ● SN74LVC1G17DCKR                            | SC-70-5    | 1.65 V-5.5 V   | 76C4090   | 0.44     |
| ● SN74LVC2G17DCKR                            | SC-70-6    | 1.65 V-5.5 V   | 76C4208   | 0.56     |
| ● SN74LVC2G17DBVR                            | SOT-23-6   | 1.65 V-5.5 V   | 76C4207   | 0.22     |
| ● SN74LVC3G17DCTR                            | SSOP-8     | 1.65 V-5.5 V   | 90H3713   | 0.20     |
| Buffer / Driver, Inverting                   |            |                |           |          |
| ● SN74LVC1G06DBVT                            | SOT-23-5   | 1.65 V-5.5 V   | 32H6342   | ---      |

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