

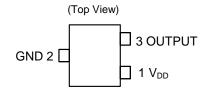
HIGH-VOLTAGE HALL-EFFECT LATCH

Description

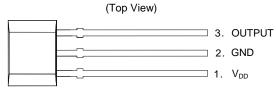
The AH372X is a high-voltage, high-sensitivity Hall-effect latch IC designed for brushless DC-motor commutation speed measurement, angular or linear encoders and position sensors in automotive applications. To support a wide range of the demanding applications, the design is optimized to operate over the supply range of 3.0V to 28V. With chopper stabilized architecture and an internal bandgap regulator to provide temperature compensated supply for internal circuits, the AH372X provides a reliable solution over the whole operating range. For robustness and protection, the device has a reverse blocking diode with a Zener clamp on the supply. The output has an overcurrent limit and a Zener clamp.

The single, open-drain output can be switched on with South pole of sufficient strength and switched off with North pole of sufficient strength. When the magnetic flux density (B) perpendicular to the package is larger than the operate point (BoP) the output is switched on (pulled low). The output is held latched until magnetic flux density reverses and becomes lower than the release point (BRP).

Pin Assignments



SC59 and SOT23 (Type S)



SIP-3 (Ammo Pack) and SIP-3 (Bulk Pack)

Features

- Bipolar Latch (South Pole: On, North Pole: Off)
- 3.0V to 28V Operating Voltage Range
- High Sensitivity: BOP and BRP of 25G to 140G and -25G to -140G (typ)
- Single Open-Drain Output with Overcurrent Limit
- Chopper Stabilized Design Provides
 - Superior Temperature Stability
 - Minimal Switch Point Drift
 - **Enhanced Immunity to Stress**
- Good RF Noise Immunity
- Reverse Blocking Diode and Zener Clamp on Supply
- -40°C to +125°C Operating Temperature
- High ESD HBM: 8kV
- Industry Standard SC59, SOT23 (Type S), SIP-3 (Ammo Pack) and SIP-3 (Bulk Pack) Packages
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Applications

- Brushless DC motor commutation
- Revolution per minute (RPM) measurement
- Flow meters
- Angular and linear encoders and position sensors
- Contactless commutation, speed measurement and angular position sensing/indexing in consumer home appliances, office equipment and industrial applications

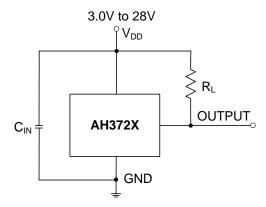
Notes:

- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

1 of 16 AH372X November 2023 www.diodes.com © 2023 Copyright Diodes Incorporated. All Rights Reserved



Typical Applications Circuit



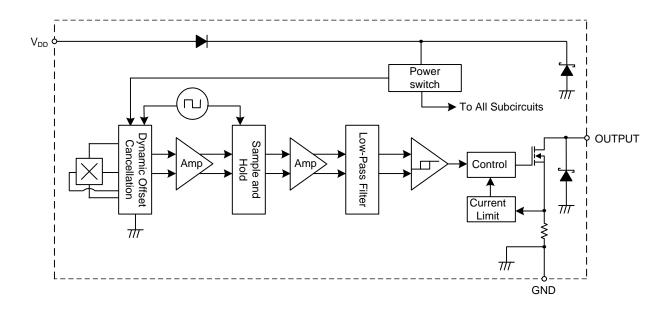
Note: 4. C_{IN} is for power stabilization and to strengthen the noise immunity. The recommended capacitance is 10nF to 100nF. R_L is the pullup resistor.

Pin Descriptions

Packages: SC59, SOT23 (Type S), SIP-3 (Ammo Pack), and SIP-3 (Bulk Pack)

| Pin Number | Pin Name | Function |
|------------|-----------------|--------------------|
| 1 | V _{DD} | Power Supply Input |
| 2 | GND | Ground |
| 3 | OUTPUT | Output Pin |

Functional Block Diagram





Absolute Maximum Ratings (Notes 5 & 6) (@TA = +25°C, unless otherwise specified.)

| Symbol | Characte | ristic | Value | Unit |
|------------------|--|-------------------|-------------|------|
| V _{DD} | Supply Voltage (Note 6) | | 32 | V |
| V _{DDR} | Reverse Supply Voltage | | -18 | V |
| Vout_max | Output Pin Off Voltage (Note 6) | | 32V | V |
| Іоит | Continuous Output Current | | 60 | mA |
| lout_r | Reverse Output Current | | -50 | mA |
| В | Magnetic Flux Density | | Unlimited | |
| Pp | Package Power Dissipation SIP-3 (Ammo Pack) SIP-3 (Bulk Pack) SC59 and SOT23 (Type S) | | 550 | mW |
| | | | 230 | |
| Ts | Storage Temperature Range | | -65 to +165 | °C |
| TJ | Maximum Junction Temperature | | +150 | °C |
| ESD HBM | Electrostatic Discharge Withstand Capability- | —Human Body Model | 8 | kV |

Notes:

- 5. Stresses greater than those listed under *Absolute Maximum Ratings* can cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Conditions* is not implied. Exposure to *Absolute Maximum Ratings* for extended periods can affect device reliability.
- 6. The absolute maximum V_{DD} of 32V is a transient stress rating and is not meant as a functional operating condition. It is not recommended to operate the device at the absolute maximum-rated conditions for any period of time.

Recommended Operating Conditions (@TA = -40°C to +125°C, unless otherwise specified.)

| Symbol | Parameter | Conditions | Rating | Unit |
|----------|-----------------------------|--|-------------|------|
| V_{DD} | Supply Voltage | Supply voltage, between V _{DD} and GND pins | 3.0 to 28 | V |
| TA | Operating Temperature Range | Operating ambient temperature range | -40 to +125 | °C |

Electrical Characteristics (Notes 7 & 8) (@TA = -40°C to +125°C, V_{DD} = 3V to 28V, C_{IN} = 0.1 μ F unless otherwise specified.)

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|----------------|---|--|-----|-------|-----|------|
| Vout_on | Output On Voltage | IOUT = 20mA, B > Bop | _ | 0.2 | 0.4 | V |
| lout_off | Output Leakage Current | Vout = 28V, B < BRP, output off | _ | < 0.1 | 10 | μΑ |
| | | Output open, T _A = +25°C | _ | 3 | 4 | mA |
| ldd | Supply Current | Output open, T _A = -40°C to +125°C | _ | _ | 5 | mA |
| | | V _{DD} = -18V, T _A = -40°C to +125°C | | -0.01 | 1 | mA |
| tsт | Device Startup Time | V _{DD} ≥ 3V, B > B _{OP} (Note 7) | _ | 10 | _ | μs |
| fc | Chopping Frequency | V _{DD} ≥ 3V | _ | 500 | _ | kHz |
| tD | The Time Delay from Magnetic Threshold Reached to the Start of the Output Rise or Fall | (Note 9) | _ | 4 | _ | μs |
| t _R | Output Rising Time (External Pullup Resistor R _L and Load Capacitance Dependent) | $R_L = 1k\Omega$, $C_L = 20pF$ (Note 9) | _ | 0.2 | 1 | μs |
| tF | Output Falling Time (Internal Switch Resistance and Load Capacitance Dependent) | $R_L = 1k\Omega$, $C_L = 20pF$ (Note 9) | | 0.1 | 1 | μs |
| locu | Output Current Limit | B > Bop (Note 10) | 30 | _ | 55 | mA |
| Vz | Zener Clamp Voltage | I _{DD} = 5mA, T _A = +25°C | 28 | _ | _ | V |

Notes:

- 7. When power is initially turned on, V_{DD} must be within its correct operating range (3.0V to 28V) to guarantee the output sampling. The output state is valid after the startup time of 10 μ s typical from the operating voltage reaching 3V.
- 8. Typical values are defined at T_A = +25°C, V_{DD} = 12V. Maximum and minimum values over the operating temperature range is not tested in production but guaranteed by design, process control and characterization.
- 9. Guaranteed by design, process control, and characterization. Not tested in production.
- 10. The device limits the output current I_{OUT} to current limit of I_{OCL} .

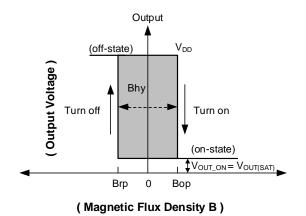


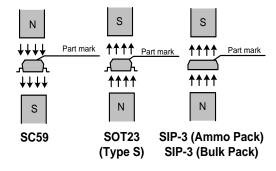
Magnetic Characteristics (Notes 11 &12) (TA = -40°C to +125°C, VDD = 3.0V to 28V, unless otherwise specified)

| Part Number | Symbol | Parameter | Min | Тур | Max | Unit | Output Type |
|-------------|--|----------------------|------|------|------|-------|-------------|
| | Bop (South pole to part-marking side) | Operation Point | 10 | 25 | 40 | | |
| AH3722 | B _{RP} (North pole to part-marking side) | Release Point | -40 | -25 | -10 | Gauss | Open-Drain |
| | Bhy (Bopx - Brpx) | Hysteresis (Note 13) | 20 | 50 | 80 | | |
| | Bop (South Pole to part marking side for SOT23 (Type S) and SIP-3 (Ammo Pack, SIP-3 (Bulk Pack) packages); South Pole to the non-part marking side for SC59 package. See diagram below) | Operation Point | 20 | 40 | 60 | | |
| AH3724 | B _{RP} (North Pole to part marking side for SOT23 (Type S) and SIP-3 (Ammo Pack, SIP-3 (Bulk Pack) packages; North Pole to the non-part marking side for SC59 package. See diagram below) | Release Point | -60 | -40 | -20 | Gauss | Open-Drain |
| | Bhy (Bopx - Brpx) | Hysteresis (Note 13) | 40 | 80 | 120 | | |
| | B _{OP} (South pole to part marking side for SOT23 (Type S) and SIP-3 (Ammo Pack, SIP-3 (Bulk Pack) packages; South pole to the non-part marking side for SC59 package. See diagram below) | Operation Point | 50 | 70 | 90 | | |
| AH3725 | BRP (North pole to part marking side for SOT23 (Type S) and SIP-3 (Ammo Pack, SIP-3 (Bulk Pack) packages; North pole to the non-part marking side for SC59 package. See diagram below) | Release Point | -90 | -70 | -50 | Gauss | Open-Drain |
| | Bhy (Bopx - Brpx) | Hysteresis (Note 13) | 100 | 140 | 180 | | |
| | Bop (South pole to part marking side) | Operation Point | 110 | 140 | 170 | | |
| AH3727 | B _{RP} (North pole to part marking side) | Release Point | -170 | -140 | -110 | Gauss | Open-Drain |
| | B _{HY} (B _{OPX} - B _{RPX}) | Hysteresis (Note 13) | 220 | 280 | 340 | | |

Notes:

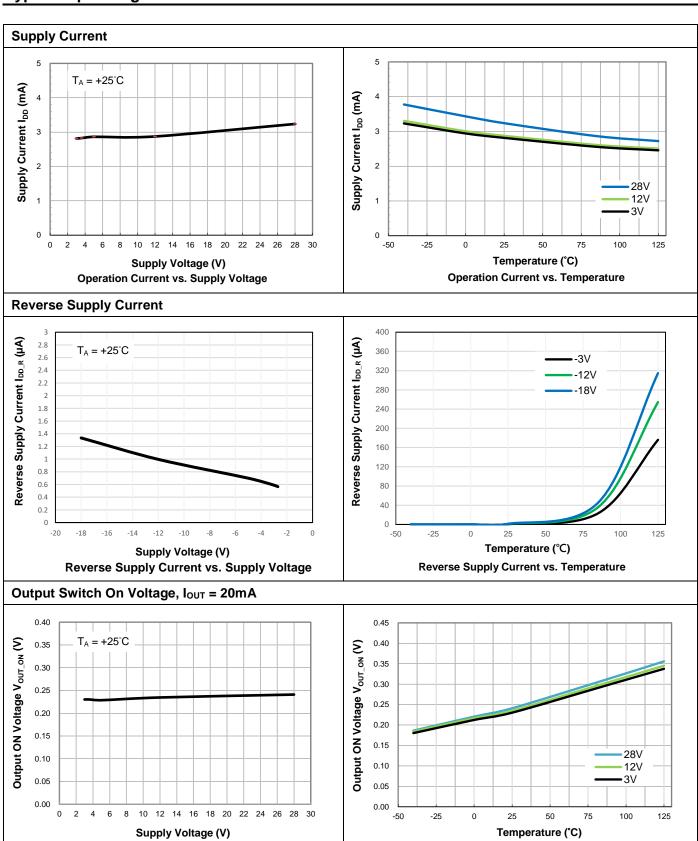
- 11. When power is initially turned on, V_{DD} must be within its correct operating range (3.0V to 28V) to guarantee the output sampling. The output state is valid after the startup time of 10µs typical from the operating voltage reaching 3V.
- 12. Typical values are defined at $T_A = +25^{\circ}C$, $V_{DD} = 12V$. Maximum and minimum values over the operating temperature range is not tested in production but guaranteed by design, process control, and characterization.
- 13. Maximum and minimum hysteresis is guaranteed by design, process control, and characterization.







Typical Operating Characteristics

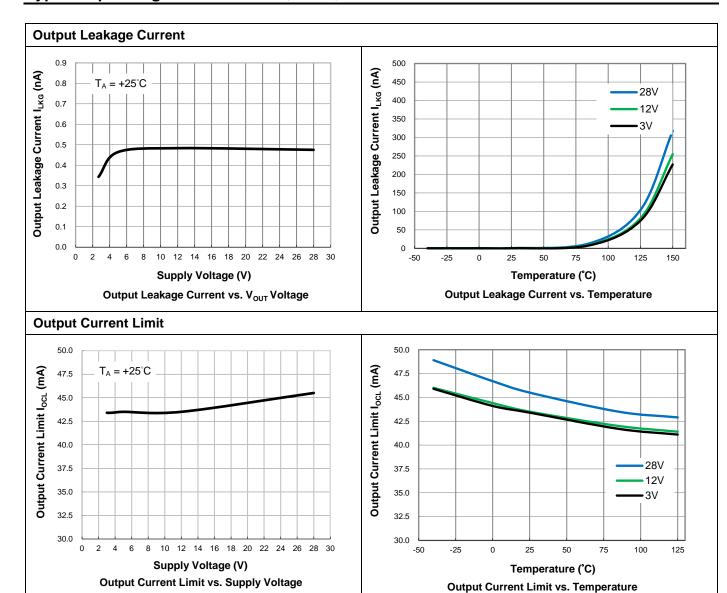


Output ON Voltage vs. Supply Voltage

Output ON Voltage vs. Temperature

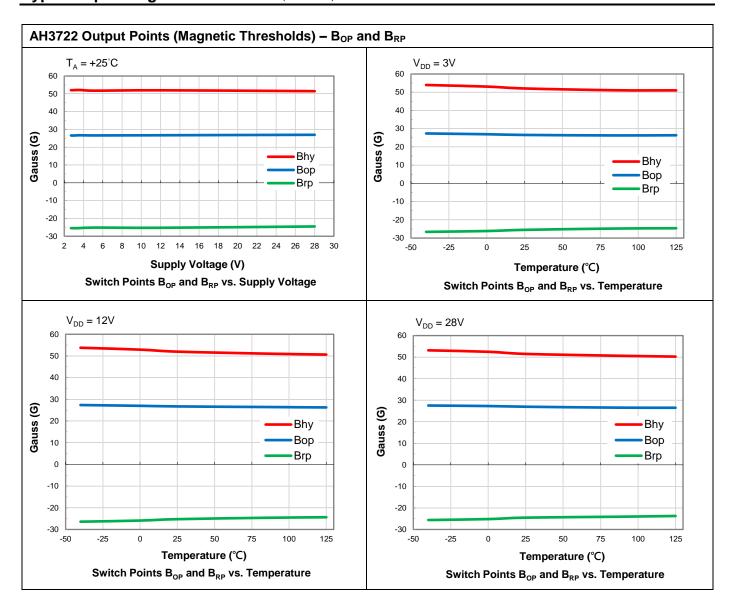


Typical Operating Characteristics (continued)



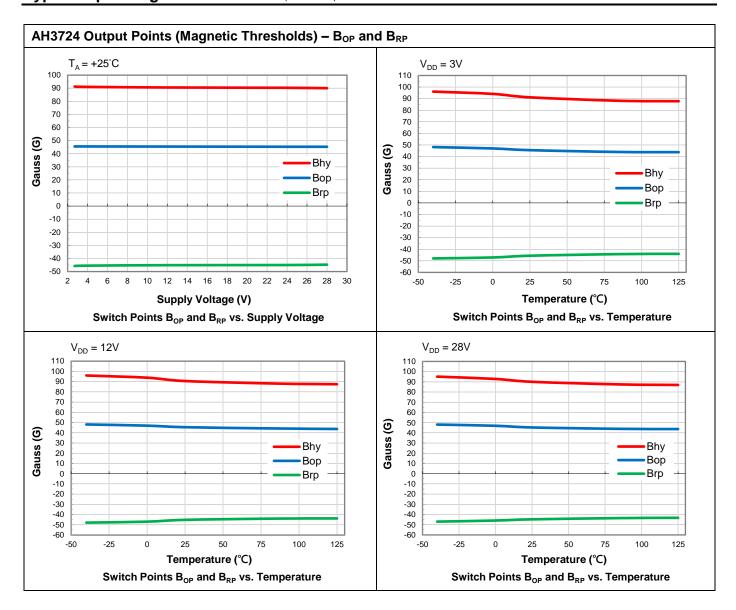


Typical Operating Characteristics (continued)



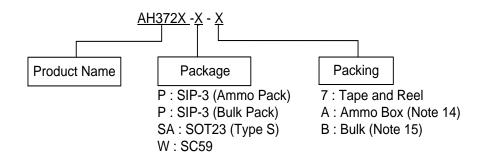


Typical Operating Characteristics (continued)





Ordering Information



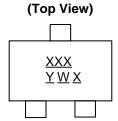
| Part Number | Dookens Code | Packago | Part Number Suffix | Pac | king |
|-------------|--------------|-------------------|--------------------|-------|----------------|
| Part Number | Package Code | Package | Part Number Sumx | Qty. | Carrier |
| AH3722-P-A | Р | SIP-3 (Ammo Pack) | -A | 4,000 | Ammo Box |
| AH3722-P-B | Р | SIP-3 (Bulk Pack) | -B | 1,000 | Bulk |
| AH3722-SA-7 | SA | SOT23 (Type S) | -7 | 3,000 | 7" Tape & Reel |
| AH3722-W-7 | W | SC59 | -7 | 3,000 | 7" Tape & Reel |
| AH3724-P-A | Р | SIP-3 (Ammo Pack) | -A | 4,000 | Ammo Box |
| AH3724-P-B | Р | SIP-3 (Bulk Pack) | -В | 1,000 | Bulk |
| AH3724-SA-7 | SA | SOT23 (Type S) | -7 | 3,000 | 7" Tape & Reel |
| AH3724-W-7 | W | SC59 | -7 | 3,000 | 7" Tape & Reel |
| AH3725-P-A | Р | SIP-3 (Ammo Pack) | -A | 4,000 | Ammo Box |
| AH3725-P-B | Р | SIP-3 (Bulk Pack) | -В | 1,000 | Bulk |
| AH3725-SA-7 | SA | SOT23 (Type S) | -7 | 3,000 | 7" Tape & Reel |
| AH3727-P-B | Р | SIP-3 (Bulk Pack) | -В | 1,000 | Bulk |

Notes:

Ammo Box is for SIP-3 Spread Lead.
 Bulk is for SIP-3 Straight Lead.

Marking Information

(1) Package Type: SOT23 (Type S)



XXX: Identification Code

 \underline{Y} : Year 0 to 9 (ex: 3 = 2023)

<u>W</u>: Week: A to Z: week 1 to 26; a to z : week 27 to 52; z represents

week 52 and 53 X: Internal Code

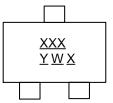
| Part Number | Package | Identification Code |
|-------------|----------------|---------------------|
| AH3722-SA-7 | SOT23 (Type S) | S4A |
| AH3724-SA-7 | SOT23 (Type S) | S4C |
| AH3725-SA-7 | SOT23 (Type S) | S4D |



Marking Information (continued)

(2) Package Type: SC59

(Top View)



XXX: Identification Code

 \underline{Y} : Year 0 to 9 (ex: 3 = 2023)

 \underline{W} : Week : A to Z : week 1 to 26; a to z : week 27 to 52; z represents

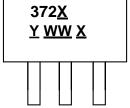
week 52 and 53

X: Internal Code

| Part Number | Package | Identification Code |
|-------------|---------|---------------------|
| AH3722-W-7 | SC59 | S5A |
| AH3724-W-7 | SC59 | S5C |

(3) Package Types: SIP-3 (Ammo Pack)/SIP-3 (Bulk Pack)

(Top View)



372X: Identification Code

 \underline{Y} : Year: 0 to 9 (ex: 3 = 2023)

WW: Week: 01 to 52, "52" represents

week 52 and 53 X: Internal Code

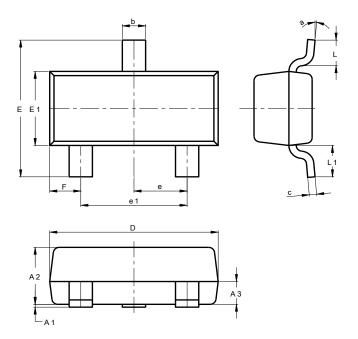
| Part Number | Package | Identification Code |
|-------------|-------------------|---------------------|
| AH3722-P-A | SIP-3 (Ammo Pack) | 3722 |
| AH3722-P-B | SIP-3 (Bulk Pack) | 3722 |
| AH3724-P-A | SIP-3 (Ammo Pack) | 3724 |
| AH3724-P-B | SIP-3 (Bulk Pack) | 3724 |
| AH3725-P-A | SIP-3 (Ammo Pack) | 3725 |
| AH3725-P-B | SIP-3 (Bulk Pack) | 3725 |
| AH3727-P-B | SIP-3 (Bulk Pack) | 3727 |



Package Outline Dimensions (All dimensions in mm.)

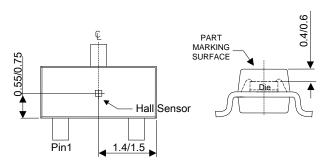
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT23 (Type S)



| , | SOT23 | (Type S |) |
|-----|--------|---------|-------|
| Dim | Min | Max | Тур |
| A1 | 0.013 | 0.10 | 0.05 |
| A2 | 0.90 | 1.025 | 1.00 |
| A3 | 0.375 | 0.425 | 0.40 |
| b | 0.37 | 0.51 | 0.40 |
| С | 0.10 | 0.18 | 0.125 |
| D | 2.80 | 3.00 | 2.90 |
| Е | 2.30 | 2.50 | 2.40 |
| E1 | 1.20 | 1.40 | 1.30 |
| е | 0.89 | 1.03 | 0.915 |
| e1 | 1.78 | 2.05 | 1.83 |
| F | 0.45 | 0.60 | 0.535 |
| L1 | 0.45 | 0.61 | 0.55 |
| L | 0.25 | 0.55 | 0.40 |
| а | 0° | 8° | |
| All | Dimens | ions in | mm |

Min/Max



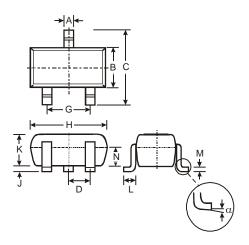
Sensor Location



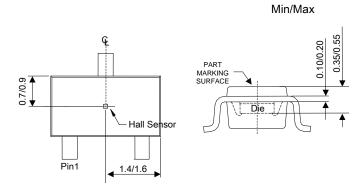
Package Outline Dimensions (All dimensions in mm.) (continued)

Please see http://www.diodes.com/package-outlines.html for the latest version.

(2) Package Type: SC59



| SC59 | | | | |
|-------|-------|---------|------|--|
| Dim | Min | Max | Тур | |
| Α | 0.35 | 0.50 | 0.38 | |
| В | 1.50 | 1.70 | 1.60 | |
| С | 2.70 | 3.00 | 2.80 | |
| D | - | - | 0.95 | |
| G | - | - | 1.90 | |
| Н | 2.90 | 3.10 | 3.00 | |
| 7 | 0.013 | 0.10 | 0.05 | |
| K | 1.00 | 1.30 | 1.10 | |
| L | 0.35 | 0.55 | 0.40 | |
| М | 0.10 | 0.20 | 0.15 | |
| Ν | 0.70 | 0.80 | 0.75 | |
| α | 0° | 8° | - | |
| All D | imens | ions in | mm | |



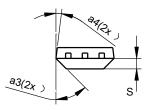
Sensor Location

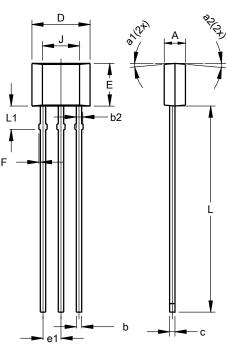


Package Outline Dimensions (All dimensions in mm.) (continued)

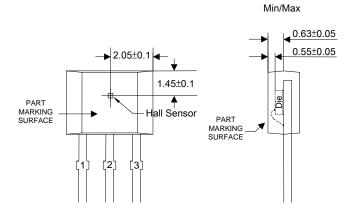
Please see http://www.diodes.com/package-outlines.html for the latest version.

(3) Package Type: SIP-3 (Bulk Pack)





| SIP-3 (Bulk Pack) | | | | |
|----------------------|-------|---------|-------|--|
| Dim | Min | Max | Тур | |
| Α | 1.40 | 1.60 | 1.50 | |
| b | 0.33 | 0.43 | 0.38 | |
| b2 | 0.40 | 0.508 | 0.46 | |
| С | 0.35 | 0.41 | 0.38 | |
| D | 3.90 | 4.30 | 4.10 | |
| E | 2.80 | 3.20 | 3.00 | |
| e1 | 1.24 | 1.30 | 1.27 | |
| F | 0.00 | 0.20 | | |
| J | 2 | .62 REF | = | |
| ١ | 14.00 | 15.00 | 14.50 | |
| L1 | 1.55 | 1.75 | 1.65 | |
| S | 0.63 | 0.84 | 0.74 | |
| a1 | | | 5° | |
| a2 | | | 5° | |
| a3 | | | 45° | |
| a4 | | | 3° | |
| All Dimensions in mm | | | | |



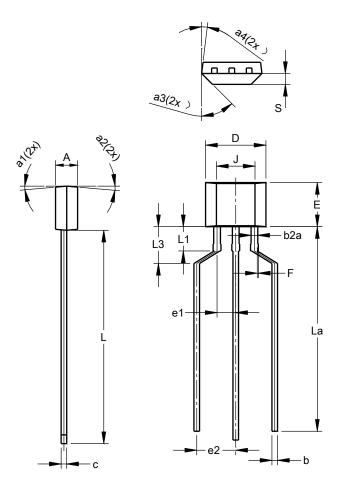
Sensor Location



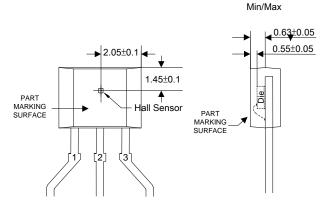
Package Outline Dimensions (All dimensions in mm.) (continued)

Please see http://www.diodes.com/package-outlines.html for the latest version.

(4) Package Type: SIP-3 (Ammo Pack)



| SIP-3 | | | | |
|----------------------|----------|-------|-------|--|
| (Ammo Pack) | | | | |
| Dim | Min | Max | Тур | |
| Α | 1.40 | 1.60 | 1.50 | |
| b | 0.33 | 0.43 | 0.38 | |
| b2a | 0.40 | 0.52 | 0.46 | |
| С | 0.35 | 0.41 | 0.38 | |
| D | 3.90 | 4.30 | 4.10 | |
| Е | 2.80 | 3.20 | 3.00 | |
| e1 | 1.24 | 1.30 | 1.27 | |
| e2 | 2.40 | 2.90 | 2.65 | |
| F | 0.00 | 0.20 | | |
| J | 2.62 REF | | | |
| L | 14.00 | 15.00 | 14.50 | |
| La | 12.90 | 14.90 | 13.90 | |
| L1 | 1.55 | 1.75 | 1.65 | |
| L3 | 2.00 | 3.00 | 2.50 | |
| S | 0.63 | 0.84 | 0.74 | |
| a1 | - | - | 5° | |
| a2 | | | 5° | |
| а3 | | | 45° | |
| a4 | | | 3° | |
| All Dimensions in mm | | | | |



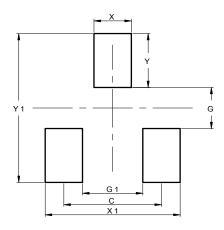
Sensor Location



Suggested Pad Layout

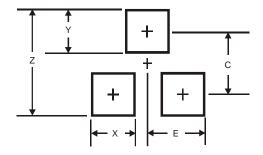
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT23 (Type S)



| Dimensions | Value (in mm) |
|------------|---------------|
| С | 1.830 |
| G | 0.800 |
| G1 | 1.130 |
| Х | 0.700 |
| X1 | 2.530 |
| Υ | 1.050 |
| Y1 | 2.900 |

(2) Package Type: SC59



| Dimensions | Value (in mm) | |
|------------|---------------|--|
| Z | 3.4 | |
| Х | 0.8 | |
| Υ | 1.0 | |
| С | 2.4 | |
| Е | 1.35 | |

Mechanical Data

- Moisture Sensitivity: SOT23 (Type S)/SC59 Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
- Weight: SIP-3 (Ammo Pack)/SIP-3 (Bulk Pack) 0.077 grams (Approximate)
 SOT23 (Type S) 0.009 grams (Approximate)

SC59 - 0.015 grams (Approximate)



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