

## Description

The AH332X is a high-voltage high-sensitivity Hall-effect Unipolar switch IC designed for proximity, position and level sensing in industrial and consumer home appliances and personal care applications. To support a wide range of the demanding applications, the design has been 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 AH332X 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. When the magnetic flux density (B) perpendicular to the package is larger than the operate point ( $B_{OP}$ ) the output is switched on (pulled low) and is held on until the magnetic flux density B is lower than the release point ( $B_{RP}$ ).

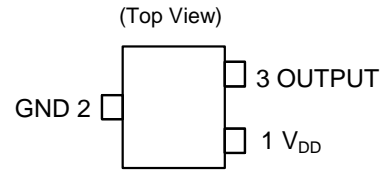
The magnetic operating and release polarity is opposite for SOT23 (Type S) and SC59 packages. The SOT23 (Type S), SIP-3 (Ammo Pack) and SIP-3 (Bulk Pack) packages require south pole to the part marking side to operate while SC59 requires south pole to the non-part marking side.

## Features

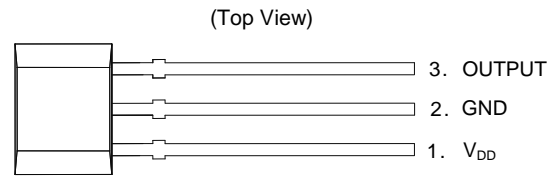
- Unipolar Operation
- High Sensitivity:  $B_{OP}$  and  $B_{RP}$  of 30G to 115G and 20G to 90G Typical
- Single Open-Drain Output with Overcurrent Limit
- 3.0V to 28V Operating Voltage Range
- Resistant to Physical Stress
- Chopper Stabilized Design Provides
  - Superior Temperature Stability
  - Minimal Switch Point Drift
  - Enhanced Immunity to Stress
- Good RF Noise Immunity
- Reverse Blocking Diode
- Zener Clamp on Supply and Output Pins
- -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](mailto:contact@diodes.com) or your local Diodes representative. <https://www.diodes.com/quality/product-definitions/>**

- 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.

## Pin Assignments



SC59 and SOT23 (Type S)

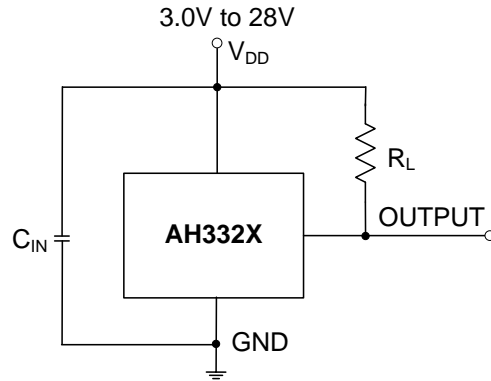


SIP-3 (Ammo Pack) and SIP-3 (Bulk Pack)

## Applications

- Position and proximity sensing in consumer home appliances, building automation, office equipment and industrial applications
- Open and close detection
- Position detection
- Level detection
- Flow meters
- Contactless switches

**Typical Applications Circuit**



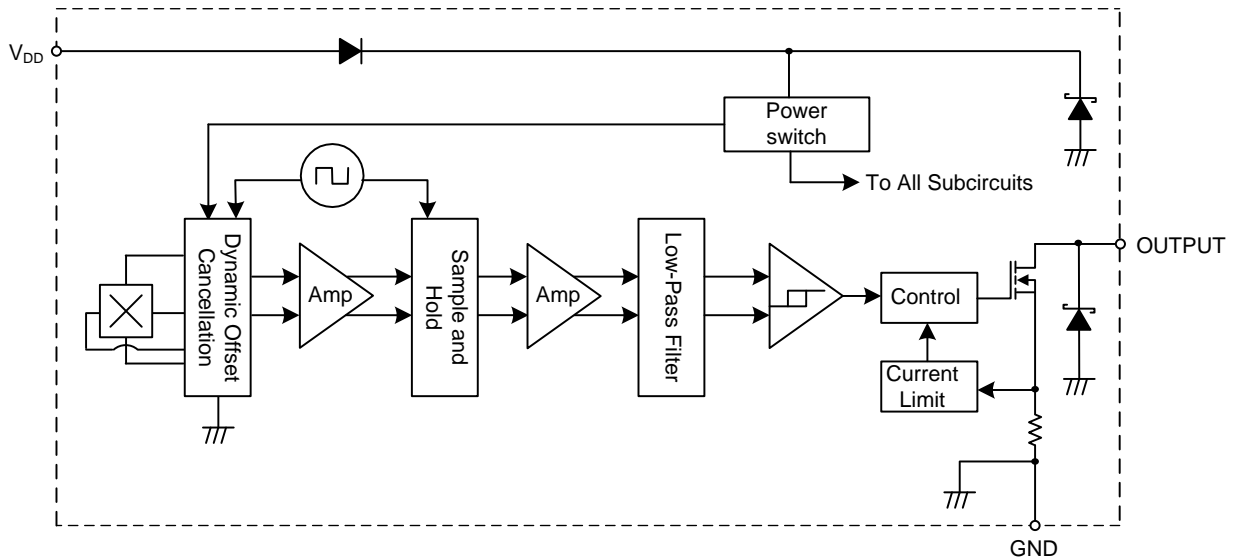
Note: 4.  $C_{IN}$  is for power stabilization and to strengthen the noise immunity. The recommended capacitance is 10nF to 100nF.  $R_L$  is the pullup resistor.

**Pin Descriptions**

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

Pin Number	Pin Name	Function
1	V <sub>DD</sub>	Power Supply Input
2	GND	Ground
3	OUTPUT	Output Pin

**Functional Block Diagram**



**Absolute Maximum Ratings** (Notes 5 & 6) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Characteristic	Value	Unit	
V <sub>DD</sub>	Supply Voltage (Note 6)	32	V	
V <sub>DDR</sub>	Reverse Supply Voltage	-18	V	
V <sub>OUT_MAX</sub>	Output Pin Off Voltage (Note 6)	32	V	
I <sub>OUT</sub>	Continuous Output Current	60	mA	
I <sub>OUT_R</sub>	Reverse Output Current	-50	mA	
B	Magnetic Flux Density	Unlimited		
P <sub>D</sub>	Package Power Dissipation	SIP-3 (Ammo Pack)	mW	
		SIP-3 (Bulk Pack)		550
		SC59 and SOT23 (Type S)		230
T <sub>S</sub>	Storage Temperature Range	-65 to +165	°C	
T <sub>J</sub>	Maximum Junction Temperature	+150	°C	
ESD HBM	Electrostatic Discharge Withstand Capability—Human Body Model	8	kV	

- Notes:
- 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.
  - The absolute maximum V<sub>DD</sub> 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** (@T<sub>A</sub> = -40°C to +125°C, unless otherwise specified.)

Symbol	Parameter	Conditions	Rating	Unit
V <sub>DD</sub>	Supply Voltage	Supply voltage, between V <sub>DD</sub> and GND pins	3.0 to 28	V
T <sub>A</sub>	Operating Temperature Range	Operating ambient temperature range	-40 to +125	°C

**Electrical Characteristics** (Notes 7 & 8) (@T<sub>A</sub> = -40°C to +125°C, V<sub>DD</sub> = 3V to 28V, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V <sub>OUT_ON</sub>	Output On Voltage	I <sub>OUT</sub> = 20mA, B > B <sub>OP</sub>	—	0.2	0.4	V
I <sub>LKG</sub>	Output Leakage Current (When Output Is Off)	V <sub>OUT</sub> = 28V, B < B <sub>RP</sub> , output off	—	< 0.1	10	μA
I <sub>DD</sub>	Supply Current	Output open, T <sub>A</sub> = +25°C	—	3	4	mA
		Output open, T <sub>A</sub> = -40°C to +125°C	—	—	5	mA
I <sub>DD_R</sub>	Reverse Supply Current	V <sub>DD</sub> = -18V, T <sub>A</sub> = -40°C to +125°C	—	-0.01	1.5	mA
t <sub>P_ON</sub>	Device Power-On Time (Startup Time)	V <sub>DD</sub> ≥ 3V, B > B <sub>OP</sub> (Note 7)	—	10	—	μs
f <sub>C</sub>	Chopping Frequency	V <sub>DD</sub> ≥ 3V	—	500	—	kHz
t <sub>D</sub>	Response Time Delay (Time from Magnetic Threshold Reached to the Start of the Output Rise or Fall)	(Note 9)	—	4	—	μs
t <sub>R</sub>	Output Rising Time (External Pullup Resistor R <sub>L</sub> and Load Capacitance Dependent)	R <sub>L</sub> = 1kΩ, C <sub>L</sub> = 20pF (Note 9)	—	0.2	1	μs
t <sub>F</sub>	Output Falling Time (Internal Switch Resistance and Load Capacitance Dependent)	R <sub>L</sub> = 1kΩ, C <sub>L</sub> = 20pF (Note 9)	—	0.1	1	μs
I <sub>OCL</sub>	Output Current Limit	B > B <sub>OP</sub> (Note 10)	30	—	55	mA
V <sub>Z</sub>	Zener Clamp Voltage	I <sub>DD</sub> = 5mA, T <sub>A</sub> = +25°C	28	—	—	V

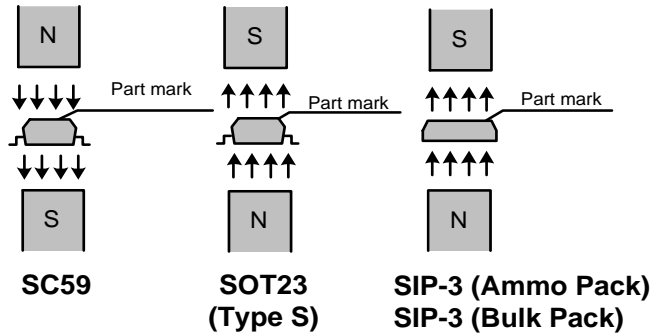
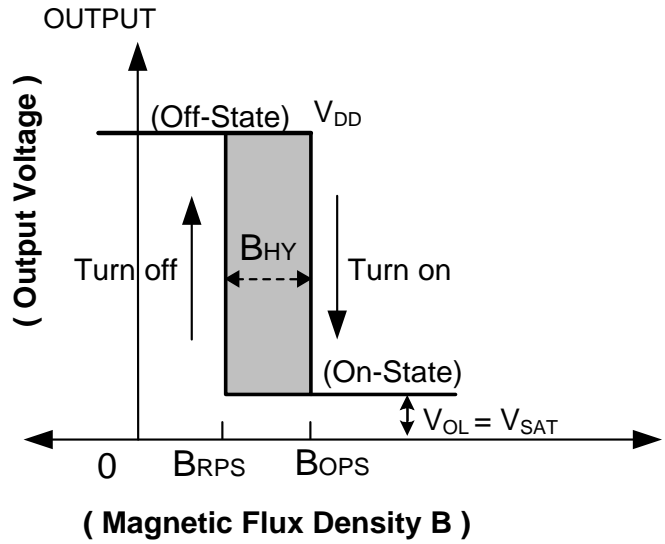
- Notes:
- When power is initially turned on, V<sub>DD</sub> must be within its correct operating range (3.0V to 28V) to guarantee the output sampling. The output state is valid after the startup time of 10μs typical from the operating voltage reaching 3V.
  - Typical values are defined at T<sub>A</sub> = +25°C, V<sub>DD</sub> = 12V. Maximum and minimum values over the operating temperature range is not tested in production but guaranteed by design, process control and characterization.
  - Guaranteed by design, process control, and characterization. Not tested in production.
  - The device limits the output current I<sub>OUT</sub> to current limit of I<sub>OCL</sub>.

**Magnetic Characteristics** (Notes 11 & 12) ( $T_A = -40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ,  $V_{DD} = 3.0\text{V}$  to  $28\text{V}$ , unless otherwise specified)

Part Number	Symbol	Parameter	Min	Typ	Max	Unit	Output Type
AH3322	BOPS (South pole to the 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	15	30	45	Gauss	Open-Drain
	BRPS (South pole to the 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)	Release Point	5	20	35		
	$B_{HY} ( B_{OPX}  -  B_{RPX} )$	Hysteresis (Note 13)	5	10	17		
AH3323	BOPS (South pole to the 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	38	55	72	Gauss	Open-Drain
	BRPS (South pole to the 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)	Release Point	20	35	50		
	$B_{HY} ( B_{OPX}  -  B_{RPX} )$	Hysteresis (Note 13)	14	20	26		
AH3326	BOPS (South pole to the 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	65	100	135	Gauss	Open-Drain
	BRPS (South pole to the 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)	Release Point	50	85	120		
	$B_{HY} ( B_{OPX}  -  B_{RPX} )$	Hysteresis (Note 13)	8	15	25		
AH3327	BOPS (South pole to the 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	95	115	140	Gauss	Open-Drain
	BRPS (South pole to the 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)	Release Point	70	90	120		
	$B_{HY} ( B_{OPX}  -  B_{RPX} )$	Hysteresis (Note 13)	18	25	36		

- Notes:
- 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 $\mu\text{s}$  typical from the operating voltage reaching 3V.
  - Typical values are defined at  $T_A = +25^{\circ}\text{C}$ ,  $V_{DD} = 12\text{V}$ . Maximum and minimum values over the operating temperature range is not tested in production but guaranteed by design, process control, and characterization.
  - Maximum and minimum hysteresis is guaranteed by design, process control, and characterization.

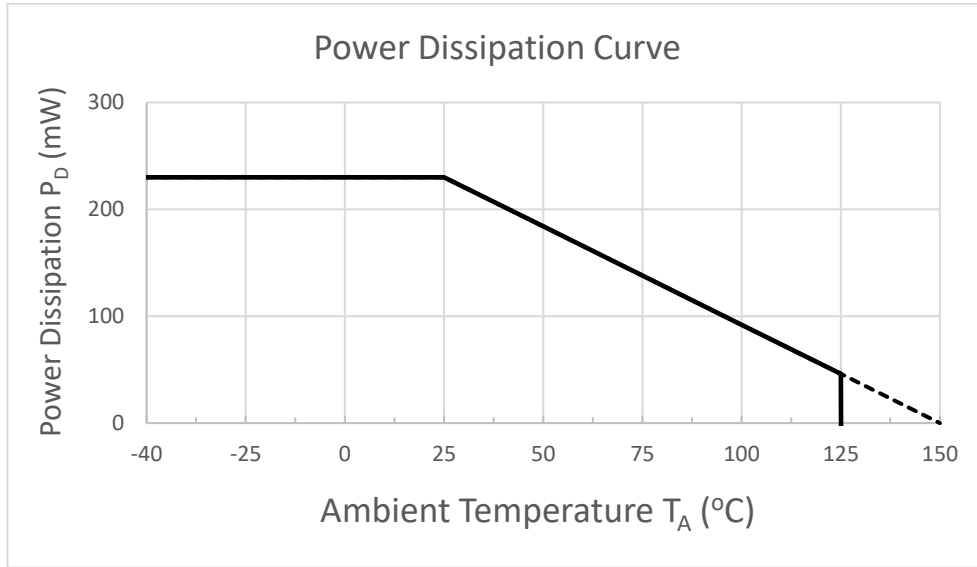
**Magnetic Characteristics** (Notes 11 & 12) ( $T_A = -40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ,  $V_{DD} = 3.0\text{V}$  to  $28\text{V}$ , unless otherwise specified) (continued)



**Thermal Performance Characteristics**

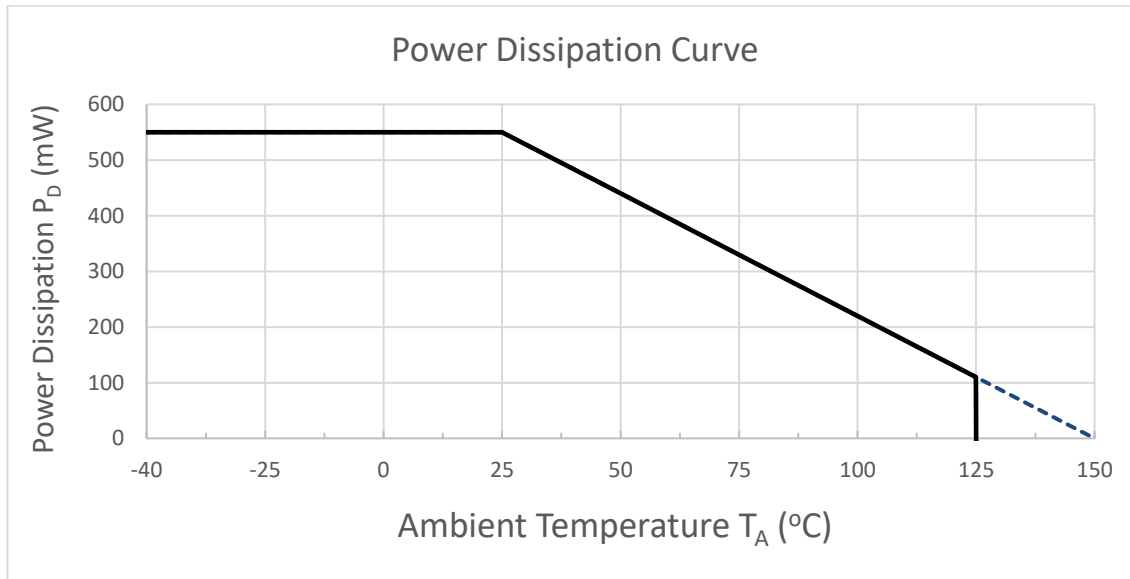
**(1) Package Types: SC59 and SOT23 (Type S)**

T <sub>A</sub> (°C)	25	50	60	70	80	85	90	100	105	110	120	125	130	140	150
P <sub>D</sub> (mW)	230	184	166	147	129	120	110	92	83	74	55	46	37	18	0



**(2) Package Types: SIP-3 (Ammo Pack) and SIP-3 (Bulk Pack)**

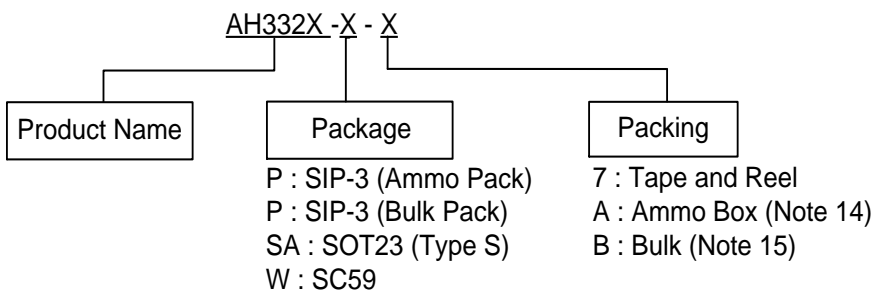
T <sub>A</sub> (°C)	25	50	60	70	80	85	90	100	105	110	120	125	130	140	150
P <sub>D</sub> (mW)	550	440	396	362	308	286	264	220	198	176	132	110	88	44	0



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## Ordering Information

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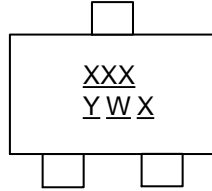
Part Number	Package Code	Package	Part Number Suffix	Packing	
				Qty.	Carrier
AH3322-P-A	P	SIP-3 (Ammo Pack)	-A	4,000	Ammo Box
AH3322-P-B	P	SIP-3 (Bulk Pack)	-B	1,000	Bulk
AH3322-SA-7	SA	SOT23 (Type S)	-7	3,000	7" Tape & Reel
AH3322-W-7	W	SC59	-7	3,000	7" Tape & Reel
AH3323-P-A	P	SIP-3 (Ammo Pack)	-A	4,000	Ammo Box
AH3323-P-B	P	SIP-3 (Bulk Pack)	-B	1,000	Bulk
AH3323-SA-7	SA	SOT23 (Type S)	-7	3,000	7" Tape & Reel
AH3323-W-7	W	SC59	-7	3,000	7" Tape & Reel
AH3326-P-A	P	SIP-3 (Ammo Pack)	-A	4,000	Ammo Box
AH3326-P-B	P	SIP-3 (Bulk Pack)	-B	1,000	Bulk
AH3326-SA-7	SA	SOT23 (Type S)	-7	3,000	7" Tape & Reel
AH3326-W-7	W	SC59	-7	3,000	7" Tape & Reel
AH3327-P-A	P	SIP-3 (Ammo Pack)	-A	4,000	Ammo Box
AH3327-P-B	P	SIP-3 (Bulk Pack)	-B	1,000	Bulk
AH3327-SA-7	SA	SOT23 (Type S)	-7	3,000	7" Tape & Reel
AH3327-W-7	W	SC59	-7	3,000	7" Tape & Reel

Notes: 14. Ammo Box is for SIP-3 Spread Lead.  
 15. Bulk is for SIP-3 Straight Lead.

## Marking Information

### (1) Package Type: SOT23 (Type S)

(Top View)

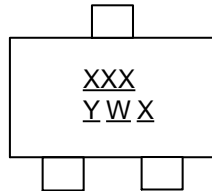


XXX : Identification Code  
Y : Year 0 to 9 (ex: 3 = 2023)  
W : Week : A to Z : week 1 to 26;  
a to z : week 27 to 52; z represents  
week 52 and 53  
X : Internal Code

Part Number	Package	Identification Code
AH3322-SA-7	SOT23 (Type S)	S2A
AH3323-SA-7	SOT23 (Type S)	S2B
AH3326-SA-7	SOT23 (Type S)	S2E
AH3327-SA-7	SOT23 (Type S)	S2F

### (2) Package Type: SC59

(Top View)

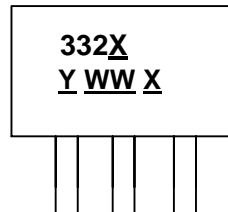


XXX : Identification Code  
Y : Year 0 to 9 (ex: 3 = 2023)  
W : Week : A to Z : week 1 to 26;  
a to z : week 27 to 52; z represents  
week 52 and 53  
X : Internal Code

Part Number	Package	Identification Code
AH3322-W-7	SC59	S3A
AH3323-W-7	SC59	S3B
AH3326-W-7	SC59	S3E
AH3327-W-7	SC59	S3F

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

(Top View)



332X : Identification Code  
Y : Year : 0 to 9 (ex: 3 = 2023)  
WW : Week : 01 to 52, "52" represents  
week 52 and 53  
X : Internal Code

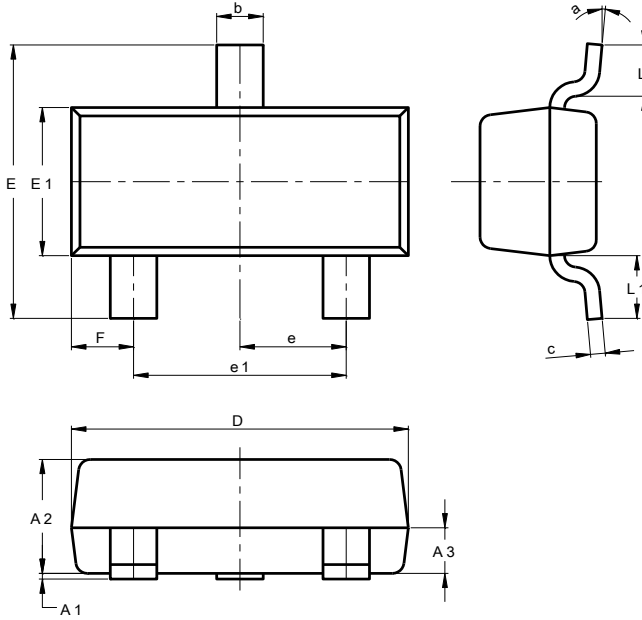
Part Number	Package	Identification Code
AH3322-P-A	SIP-3 (Ammo Pack)	3322
AH3322-P-B	SIP-3 (Bulk Pack)	3322
AH3323-P-A	SIP-3 (Ammo Pack)	3323
AH3323-P-B	SIP-3 (Bulk Pack)	3323
AH3326-P-A	SIP-3 (Ammo Pack)	3326
AH3326-P-B	SIP-3 (Bulk Pack)	3326
AH3327-P-A	SIP-3 (Ammo Pack)	3327
AH3327-P-B	SIP-3 (Bulk Pack)	3327



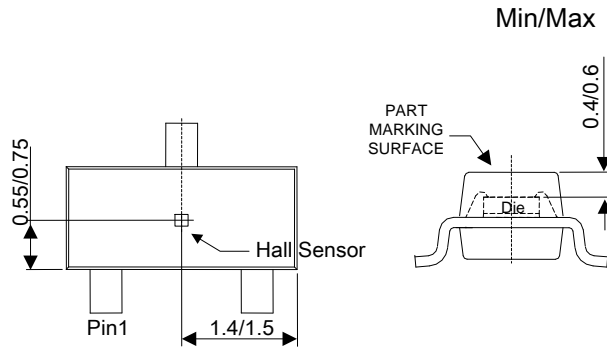
**Package Outline Dimensions** (All dimensions in mm.)

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	Typ
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
c	0.10	0.18	0.125
D	2.80	3.00	2.90
E	2.30	2.50	2.40
E1	1.20	1.40	1.30
e	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
a	0°	8°	--
All Dimensions in mm			

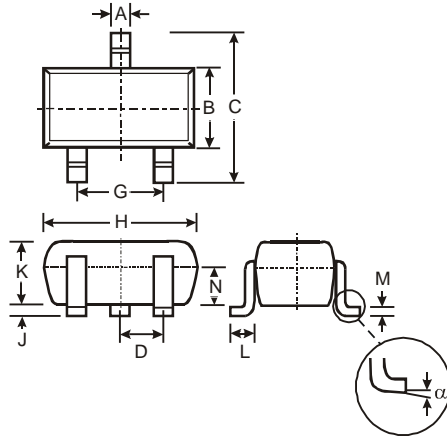


**Sensor Location**

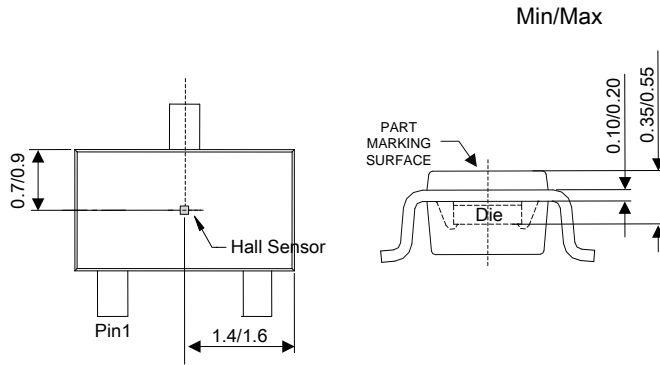
**Package Outline Dimensions** (All dimensions in mm.) (continued)

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

(2) Package Type: SC59



SC59			
Dim	Min	Max	Typ
A	0.35	0.50	0.38
B	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
G	-	-	1.90
H	2.90	3.10	3.00
J	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
M	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

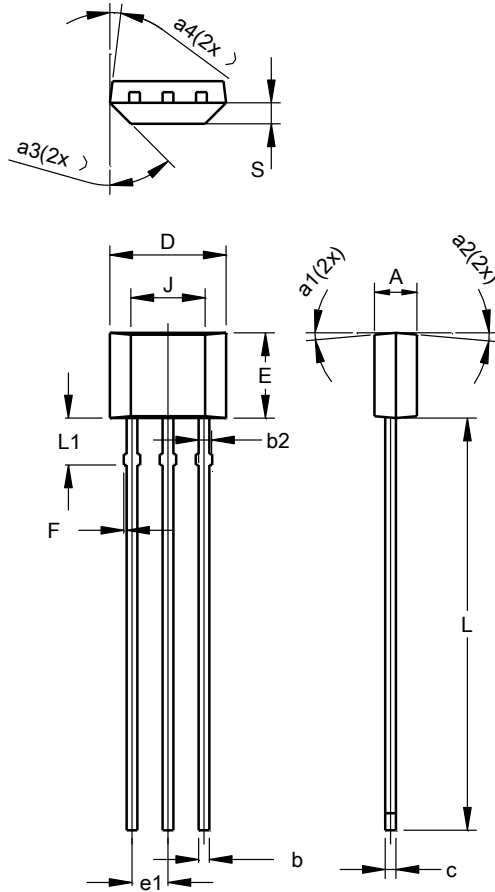


Sensor Location

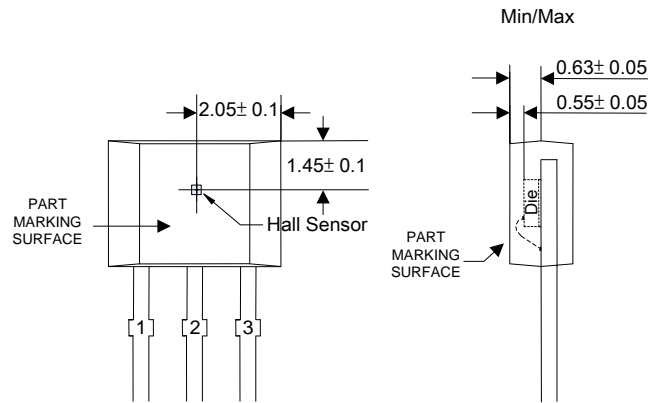
**Package Outline Dimensions** (All dimensions in mm.) (continued)

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

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



SIP-3 (Bulk Pack)			
Dim	Min	Max	Typ
A	1.40	1.60	1.50
b	0.33	0.43	0.38
b2	0.40	0.508	0.46
c	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		
L	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			

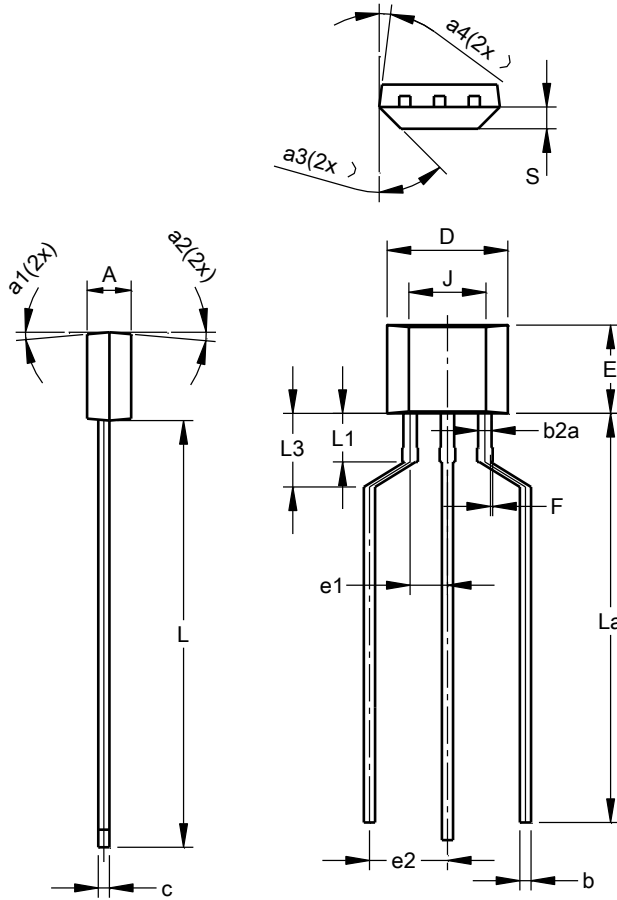


**Sensor Location**

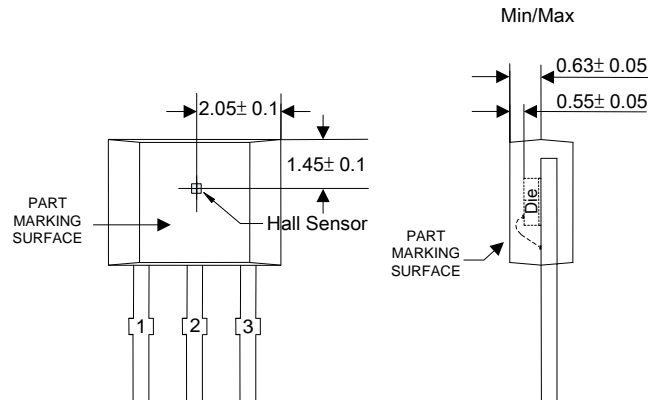
**Package Outline Dimensions** (All dimensions in mm.) (continued)

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	Typ
A	1.40	1.60	1.50
b	0.33	0.43	0.38
b2a	0.40	0.52	0.46
c	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
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°
a3	--	--	45°
a4	--	--	3°
All Dimensions in mm			

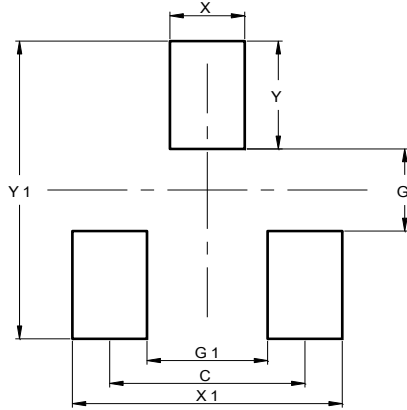


**Sensor Location**

## Suggested Pad Layout

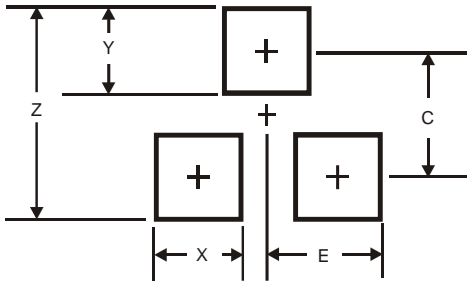
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### (1) Package Type: SOT23 (Type S)



Dimensions	Value (in mm)
C	1.830
G	0.800
G1	1.130
X	0.700
X1	2.530
Y	1.050
Y1	2.900

### (2) Package Type: SC59



Dimensions	Value (in mm)
Z	3.4
X	0.8
Y	1.0
C	2.4
E	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 (E3)
- 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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