

## Description

The AH3762Q is an AEC-Q100 qualified 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 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 AH3762Q 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).

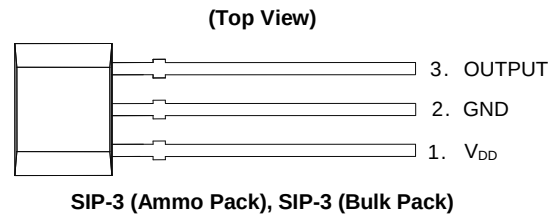
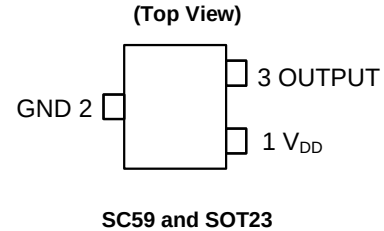
The magnetic operating and release polarity is opposite for SOT23 and SC59 packages. SOT23 and SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) packages will require south pole to the part marking side to operate while SC59 will require south pole to the non part-marking side.

## Features

- Bipolar Latch Operation (South Pole: On, North Pole: off)
- High Sensitivity: Bop and Brp of +25G and -25G Typical
- Single Open-Drain Output with Overcurrent Limit
- 3.0V to 28V Operating Voltage Range
- 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 +150°C Operating Temperature
- ESD: HBM > 8kV, CDM: >2kV
- AEC-Q100 Grade 0 Qualified
- Industry Standard SC59, SOT23 and SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) Packages
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green Device (Note 3)**
- **Qualified to AEC-Q100 Standards for High Reliability**
- **PPAP Capable (Note 4)**

- 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.
  4. Automotive products are AEC-Q100 qualified and are PPAP capable. Refer to <https://www.diodes.com/quality/>.

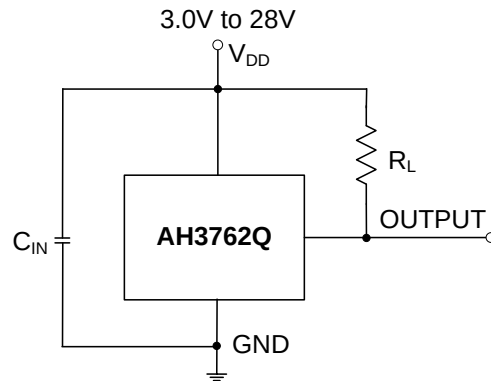
## Pin Assignments



## Applications

- Brushless DC-Motor Commutation
- Revolution Per Minute (RPM) Measurement
- Angular and Linear Encoder and Position Sensing and Indexing
- Flow Meters
- Contactless Commutation, Speed Measurement and Angular Position Sensing/Indexing in Automotive Applications

## Typical Applications Circuit (Note 5)



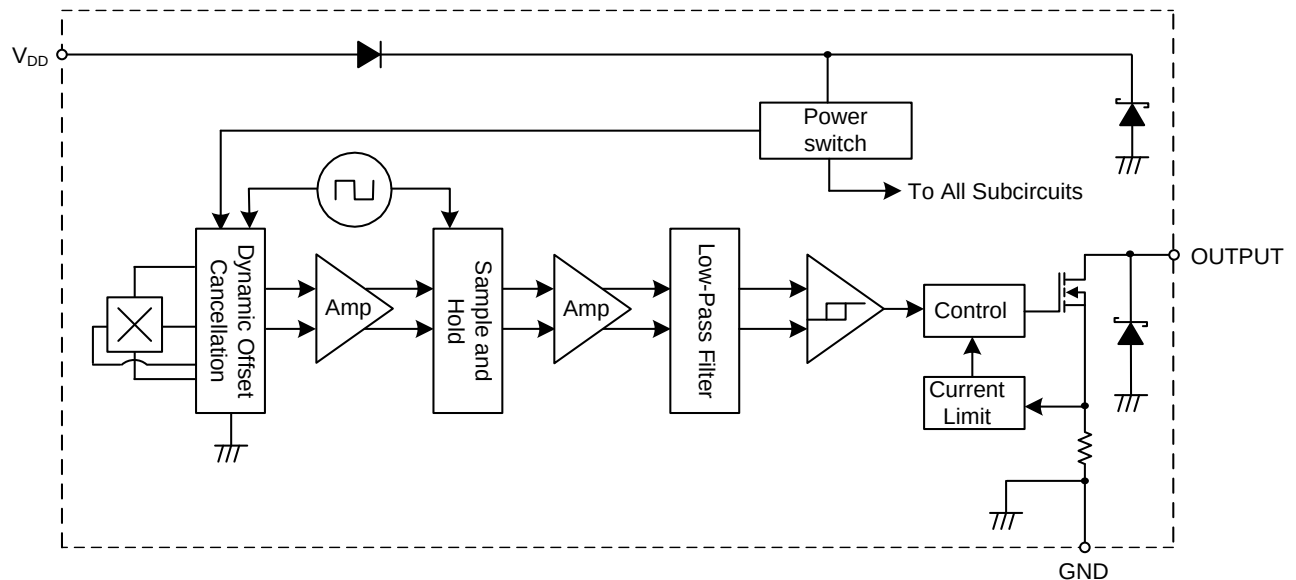
Note: 5.  $C_{IN}$  is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 10nF ~ 100nF.  $R_L$  is the pull-up resistor.

## Pin Descriptions

Package: SC59, SOT23 and SIP-3 (Ammo Pack), 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 6 and 7) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

| Symbol               | Characteristic                                                 | Value                                   | Unit |
|----------------------|----------------------------------------------------------------|-----------------------------------------|------|
| V <sub>DD</sub>      | Supply Voltage (Note 7)                                        | 32                                      | V    |
| V <sub>DDR</sub>     | Reverse Supply Voltage (Note 7)                                | -32                                     | V    |
| V <sub>OUT_MAX</sub> | Output Off Voltage (Note 7)                                    | 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),<br>SIP-3 (Bulk Pack) | mW   |
|                      |                                                                | SC59 and SOT23                          |      |
| 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 - Human Body Model (HBM)     | 8                                       | kV   |
| ESD MM               | Electrostatic Discharge Withstand - Machine Model (MM)         | 800                                     | V    |
| ESD CDM              | Electrostatic Discharge Withstand - Charged Device Model (CDM) | 2                                       | kV   |

- Notes:
- Stresses greater than the 'Absolute Maximum Ratings' specified above may cause permanent damage to the device. These are stress ratings only; functional operation of the device at these or any other conditions exceeding those indicated in this specification is not implied. Device reliability may be affected by exposure to absolute maximum rating conditions for extended periods of time.
  - 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 +150°C, unless otherwise specified.)

| Symbol          | Parameter                   | Conditions | Rating      | Unit |
|-----------------|-----------------------------|------------|-------------|------|
| V <sub>DD</sub> | Supply Voltage              | Operating  | 3.0 to 28   | V    |
| T <sub>A</sub>  | Operating Temperature Range | Operating  | -40 to +150 | °C   |

**Electrical Characteristics** (Notes 8 and 9) (@T<sub>A</sub> = -40°C to +150°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 > Bop                       | -   | 0.2  | 0.4   | V    |
| I <sub>LKG</sub>    | Output Leakage Current<br>(When Output is Off)                                                        | V <sub>OUT</sub> = 28V, B < Brp, Output off            | -   | <0.1 | 10    | μA   |
| I <sub>DD</sub>     | Supply Current                                                                                        | Output open, T <sub>A</sub> = +25°C                    | -   | 3    | 3.5   | mA   |
|                     |                                                                                                       | Output open, T <sub>A</sub> = -40 to +150°C            | -   | -    | 4     | mA   |
| I <sub>DD_R</sub>   | Reverse Supply Current                                                                                | V <sub>DD</sub> = -18V, T <sub>A</sub> = +25°C         | -   | 0.6  | -     | μA   |
|                     |                                                                                                       | V <sub>DD</sub> = -18V, T <sub>A</sub> = -40 to +150°C | -   | 0.6  | 1,500 | μA   |
|                     |                                                                                                       | V <sub>DD</sub> = -28V, T <sub>A</sub> = +25°C         | -   | 1.6  | -     | μA   |
|                     |                                                                                                       | V <sub>DD</sub> = -28V, T <sub>A</sub> = -40 to +150°C | -   | 1.6  | 2,500 | μA   |
| t <sub>P_ON</sub>   | Device Power-On Time (Start-Up Time)                                                                  | V <sub>DD</sub> ≥ 3V, B > Bop (Note 8)                 | -   | 10   | -     | μs   |
| f <sub>c</sub>      | Chopping Frequency                                                                                    | V <sub>DD</sub> ≥ 3V                                   | -   | 800  | -     | kHz  |
| t <sub>d</sub>      | Response Time Delay<br>(Time from Magnetic Threshold Reached to the Start of the Output Rise or Fall) | (Note 10)                                              | -   | 3.75 | -     | μs   |
| t <sub>r</sub>      | Output Rising Time<br>(External Pull-Up Resistor R <sub>L</sub> and Load Capacitance Dependent)       | R <sub>L</sub> = 1kΩ, C <sub>L</sub> = 20pF            | -   | 0.2  | 1     | μs   |
| t <sub>f</sub>      | Output Falling Time<br>(Internal Switch Resistance and load capacitance dependent)                    | R <sub>L</sub> = 1kΩ, C <sub>L</sub> = 20pF            | -   | 0.1  | 1     | μs   |
| I <sub>OCL</sub>    | Output Current Limit                                                                                  | B > Bop, (Note 11)                                     | 30  | -    | 55    | mA   |
| V <sub>Z</sub>      | Zener Clamp Voltage                                                                                   | I <sub>DD</sub> = 5mA                                  | 28  | -    | -     | V    |

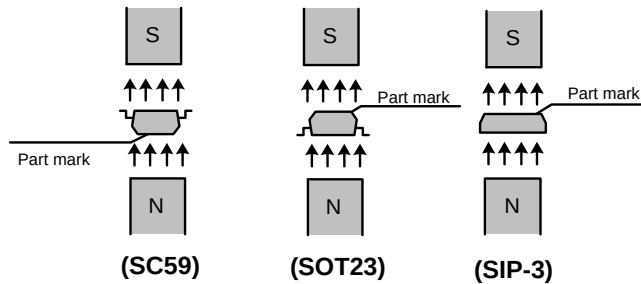
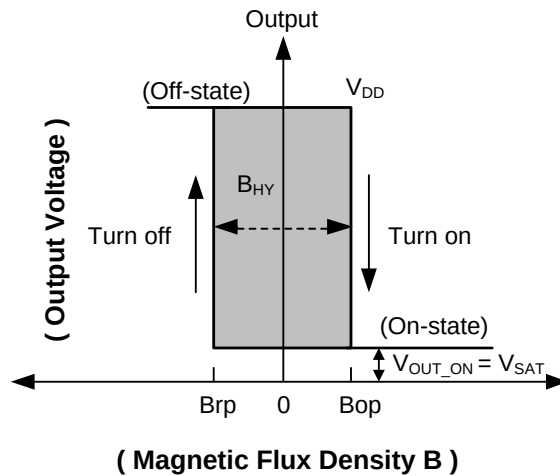
- Notes:
- When power is initially turned on, V<sub>DD</sub> must be within its correct operating range (3.0V to 28V) to guarantee the output sampling. The output state is valid after the start-up time of 10μs typical from the operating voltage reaching 3V.
  - Typical values are defined at T<sub>A</sub> = +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 will limit the output current I<sub>OUT</sub> to current limit of I<sub>OCL</sub>.

**Magnetic Characteristics** (Notes 12 and 13) ( $T_A = -40^\circ\text{C}$  to  $+150^\circ\text{C}$ ,  $V_{DD} = 3.0\text{V}$  to  $28\text{V}$ , unless otherwise specified.)

(1mT=10 Gauss)

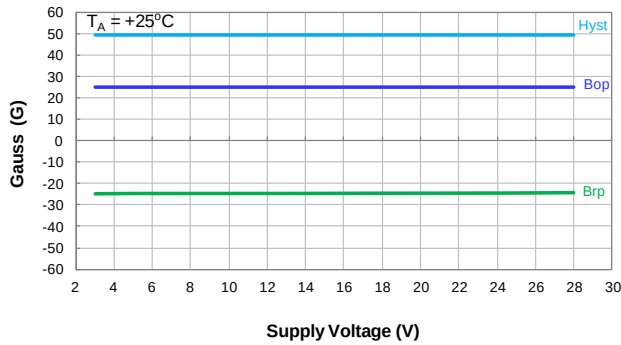
| Symbol                                                                                                                                                                            | Parameter            | Conditions                                        | Min | Typ | Max | Unit  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------|-----|-----|-----|-------|
| Bop (South pole to part marking side for SOT23 and SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) packages;<br>South pole to the non-part marking side for SC59 package. See diagram below) | Operation Point      | $V_{DD} = 12\text{V}$ , $T_A = +25^\circ\text{C}$ | -   | 25  | -   | Gauss |
|                                                                                                                                                                                   |                      | $T_A = -40^\circ\text{C}$ to $+150^\circ\text{C}$ | 10  | 25  | 40  |       |
| Brp (North pole to part marking side for SOT23 and SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) packages;<br>North pole to the non-part marking side for SC59 package. See diagram below) | Release Point        | $V_{DD} = 12\text{V}$ , $T_A = +25^\circ\text{C}$ | -   | -25 | -   |       |
|                                                                                                                                                                                   |                      | $T_A = -40^\circ\text{C}$ to $+150^\circ\text{C}$ | -40 | -25 | -10 |       |
| B <sub>HY</sub> ( Bopx - Brpx )                                                                                                                                                   | Hysteresis (Note 14) | $V_{DD} = 12\text{V}$ , $T_A = +25^\circ\text{C}$ | -   | 50  | -   |       |
|                                                                                                                                                                                   |                      | $T_A = -40^\circ\text{C}$ to $+150^\circ\text{C}$ | 20  | 50  | 80  |       |

- 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 start-up 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.

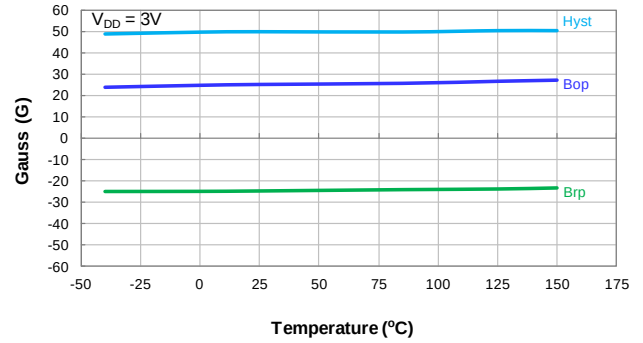


## Typical Operating Characteristics

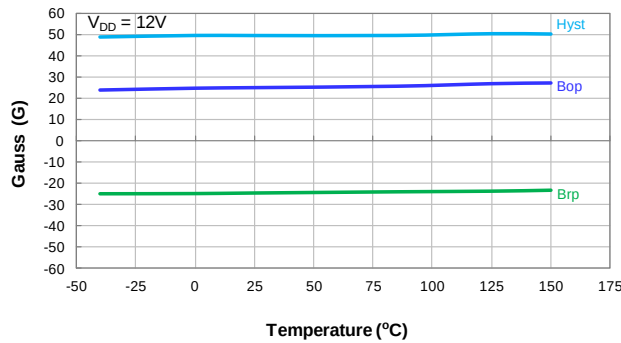
### Output Switch Operate and Release Points (Magnetic Thresholds) – Bop and Brp



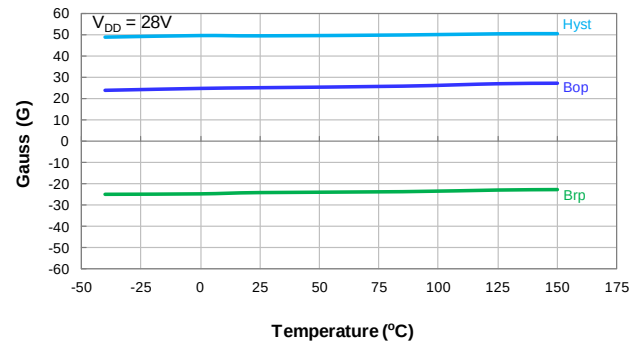
Switch Points Bop and Brp vs Supply Voltage



Switch Points Bop and Brp vs Temperature

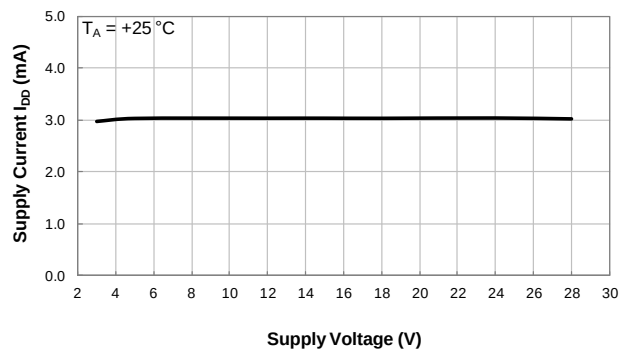


Switch Points Bop and Brp vs Temperature

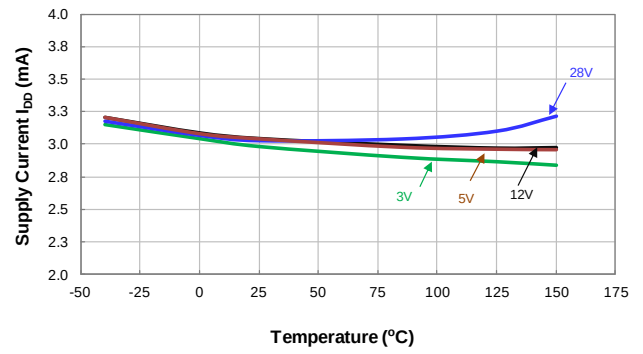


Switch Points Bop and Brp vs Temperature

### Supply Current



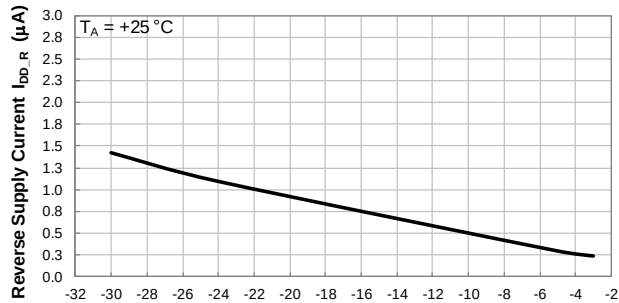
Supply Current vs Supply Voltage



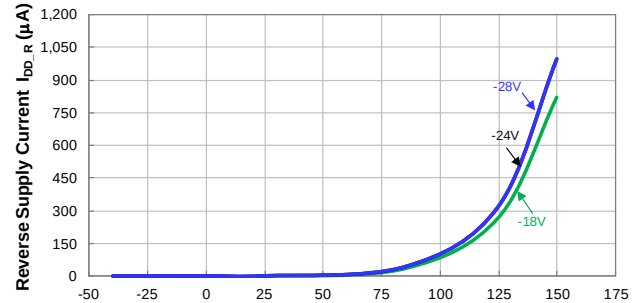
Supply Current vs Temperature

## Typical Operating Characteristics (Cont.)

### Reverse Supply Current

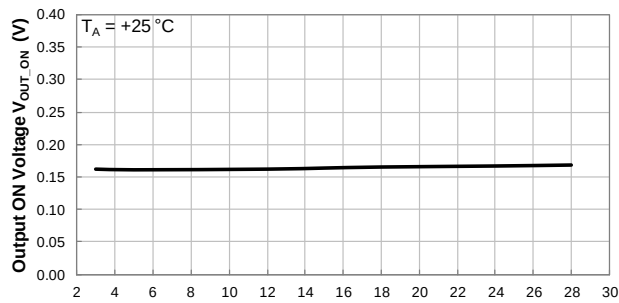


Reverse Supply Current vs Supply Voltage

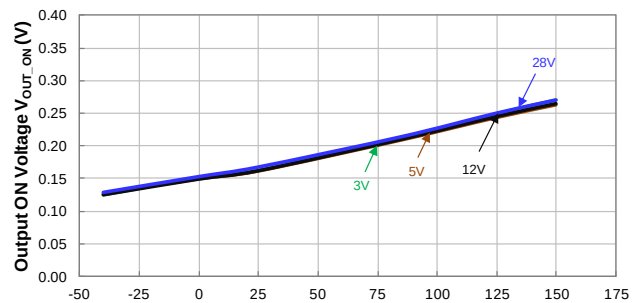


Reverse Supply Current vs Temperature

### Output Switch On Voltage

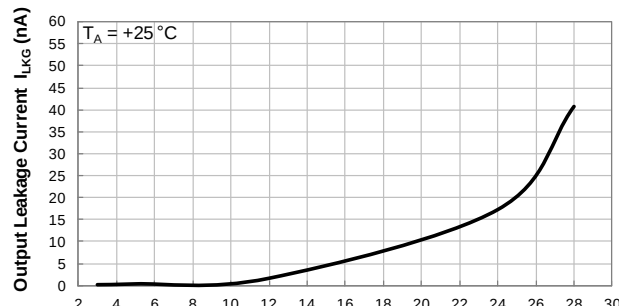


Output ON Voltage vs Supply Voltage

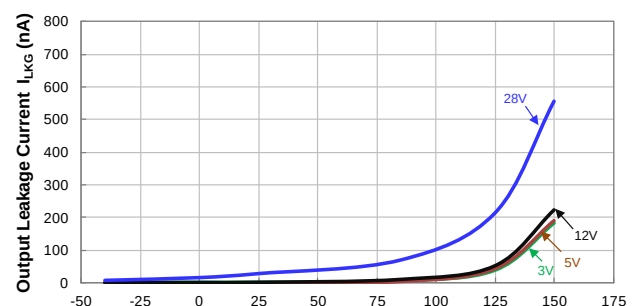


Output ON Voltage vs Temperature

### Output Switch Leakage Current



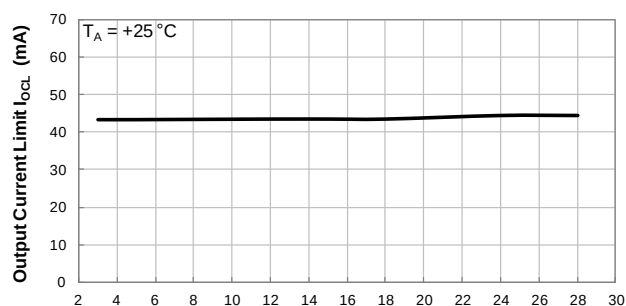
Output Leakage Current vs Supply Voltage



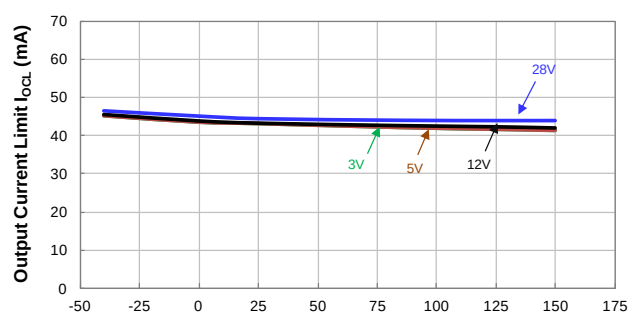
Output Leakage Current vs Temperature

## Typical Operating Characteristics (Cont.)

### Output Current Limit



Supply Voltage (V)  
Output Current Limit vs Supply Voltage

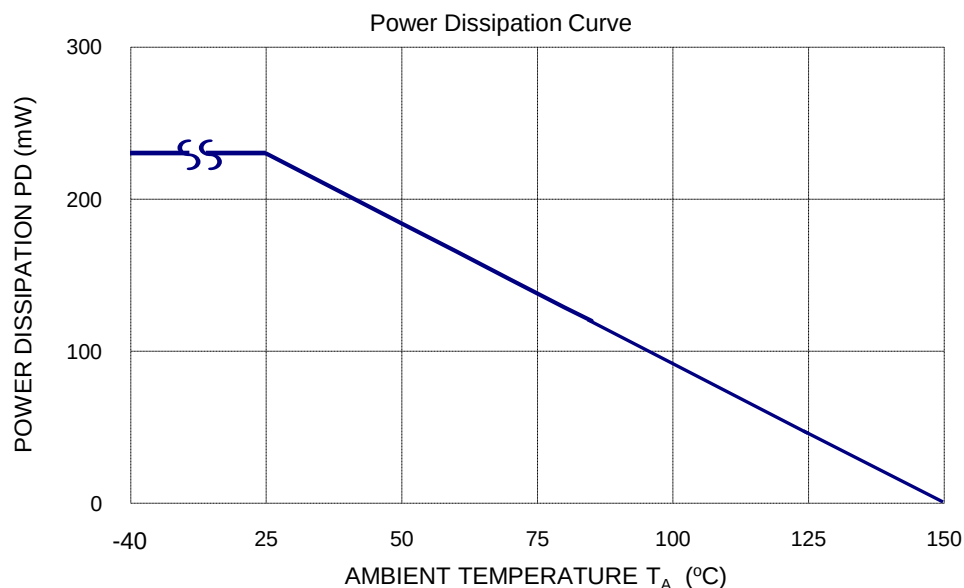


Temperature ( $^\circ\text{C}$ )  
Output Current Limit vs Temperature

## Thermal Performance Characteristics

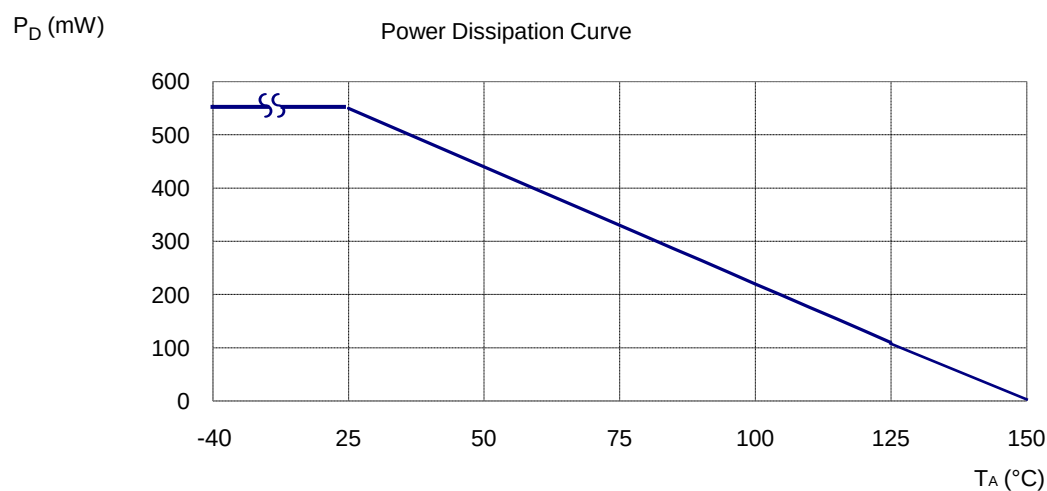
### (1) Package Type: SC59 and SOT23

| 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   |



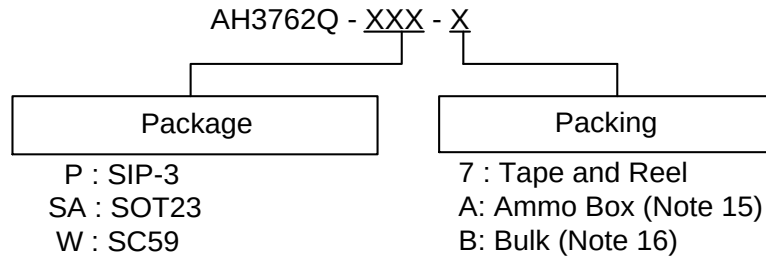
### (2) Package Type: SIP-3 (Ammo Pack), SIP-3 (Bulk Pack)

| 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   |





## Ordering Information



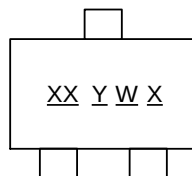
| Part Number  | Package Code | Packaging                            | Bulk     |                    | 7" Tape and Reel  |                    | Ammo Box  |                    |
|--------------|--------------|--------------------------------------|----------|--------------------|-------------------|--------------------|-----------|--------------------|
|              |              |                                      | Quantity | Part Number Suffix | Quantity          | Part Number Suffix | Quantity  | Part Number Suffix |
| AH3762Q-P-A  | P            | SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) | NA       | NA                 | NA                | NA                 | 4,000/Box | -A                 |
| AH3762Q-P-B  | P            | SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) | 1,000    | -B                 | NA                | NA                 | NA        | NA                 |
| AH3762Q-SA-7 | SA           | SOT23                                | NA       | NA                 | 3,000/Tape & Reel | -7                 | NA        | NA                 |
| AH3762Q-W-7  | W            | SC59                                 | NA       | NA                 | 3,000/Tape & Reel | -7                 | NA        | NA                 |

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

## Marking Information

### (1) Package Type: SC59 and SOT23

( Top View )

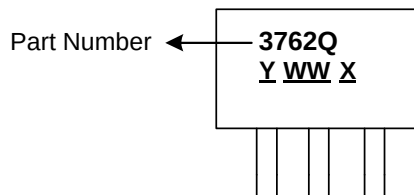


XX : Identification code  
Y : Year 0 to 9  
W : Week : A to Z : 1 to 26 week;  
 a to z : 27 to 52 week; z represents 52 and 53 week  
X : Internal code

| Part Number | Package | Identification Code |
|-------------|---------|---------------------|
| AH3762Q     | SC59    | YK                  |
| AH3762Q     | SOT23   | WK                  |

### (2) Package Type: SIP-3 (Ammo Pack), SIP-3 (Bulk Pack)

( Top View )



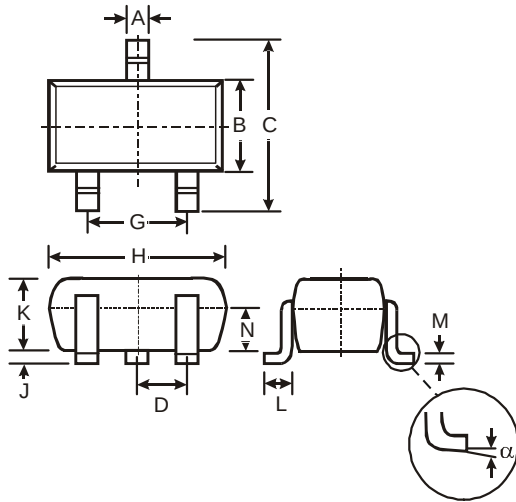
Y : Year : 0~9  
WW : Week : 01~52, "52" represents 52 and 53 week  
X : Internal Code

| Part Number | Package                              | Identification Code |
|-------------|--------------------------------------|---------------------|
| AH3762Q     | SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) | 3762Q               |

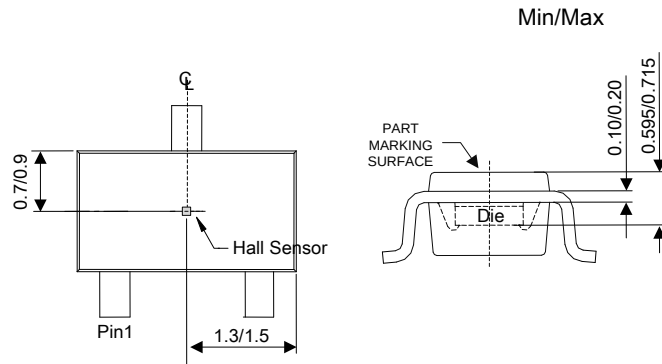
## Package Outline Dimensions (All dimensions in mm.)

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

### (1) 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 |
| $\alpha$             | 0°    | 8°   | -    |
| All Dimensions in mm |       |      |      |

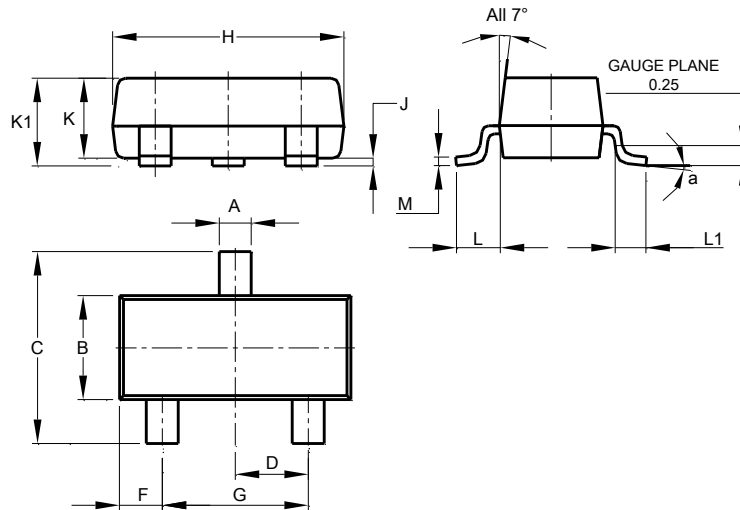


**Sensor Location**

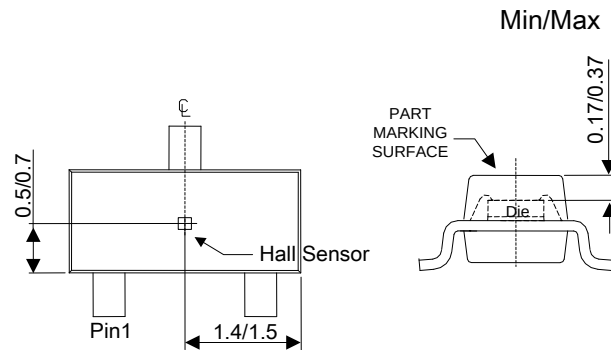
## Package Outline Dimensions (Cont.) (All dimensions in mm.)

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

### (2) Package Type: SOT23



| SOT23                |       |       |       |
|----------------------|-------|-------|-------|
| Dim                  | Min   | Max   | Typ   |
| A                    | 0.37  | 0.51  | 0.40  |
| B                    | 1.20  | 1.40  | 1.30  |
| C                    | 2.30  | 2.50  | 2.40  |
| D                    | 0.89  | 1.03  | 0.915 |
| F                    | 0.45  | 0.60  | 0.535 |
| G                    | 1.78  | 2.05  | 1.83  |
| H                    | 2.80  | 3.00  | 2.90  |
| J                    | 0.013 | 0.10  | 0.05  |
| K                    | 0.890 | 1.00  | 0.975 |
| K1                   | 0.903 | 1.10  | 1.025 |
| L                    | 0.45  | 0.61  | 0.55  |
| L1                   | 0.25  | 0.55  | 0.40  |
| M                    | 0.085 | 0.150 | 0.110 |
| a                    | 0°    | 8°    | --    |
| All Dimensions in mm |       |       |       |

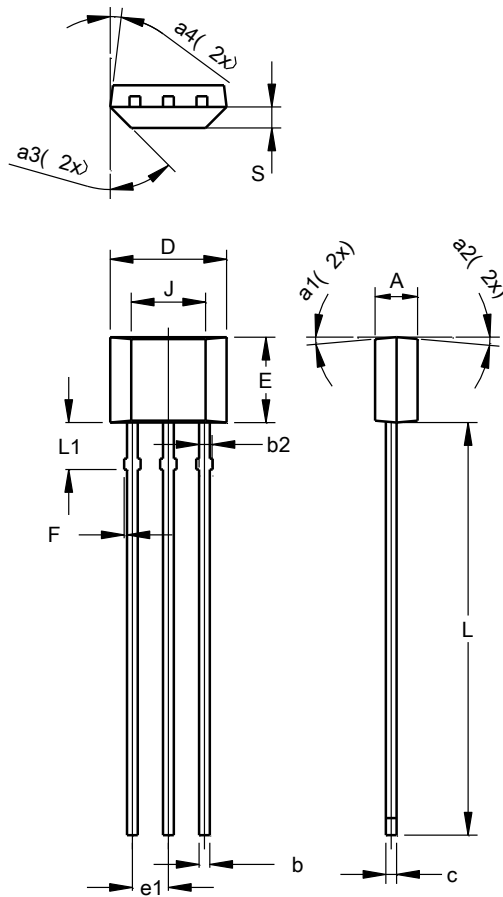


Sensor Location

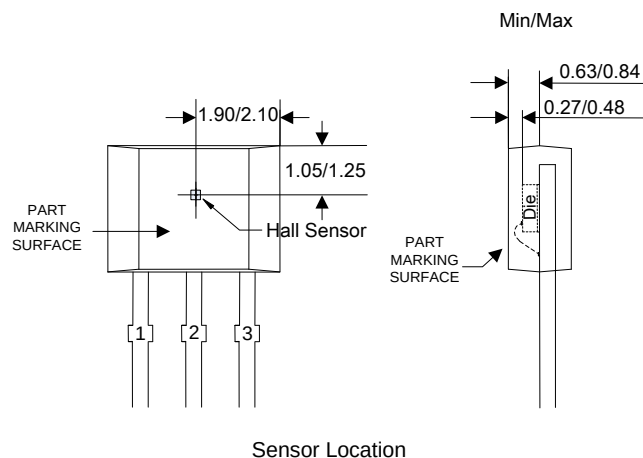
## Package Outline Dimensions (Cont.) (All dimensions in mm.)

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

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



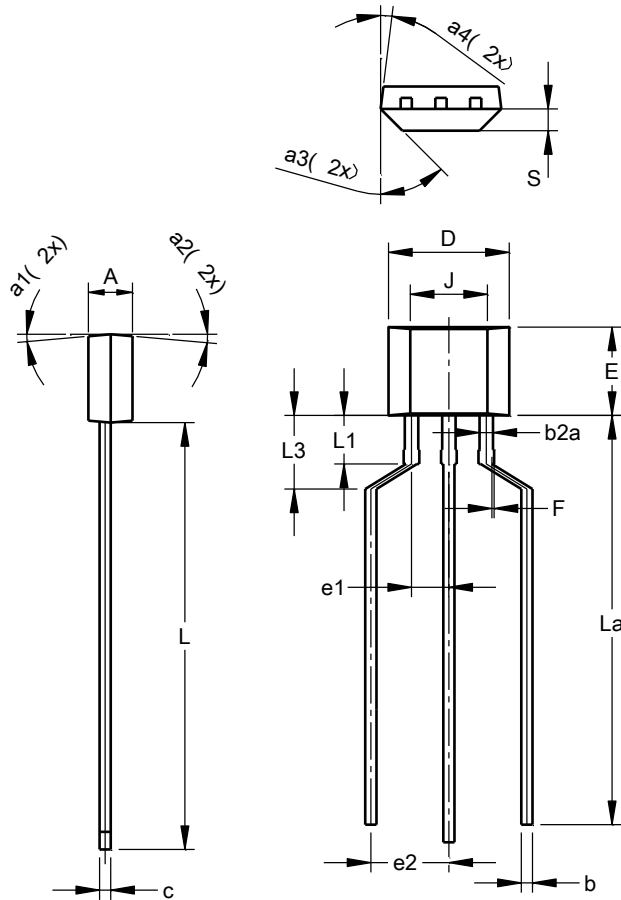
| SIP-3 (Bulk Pack)    |          |       |       |
|----------------------|----------|-------|-------|
| Dim                  | Min      | Max   | Typ   |
| A                    | 1.40     | 1.60  | 1.50  |
| b                    | 0.33     | 0.43  | 0.38  |
| b2                   | 0.40     | 0.508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



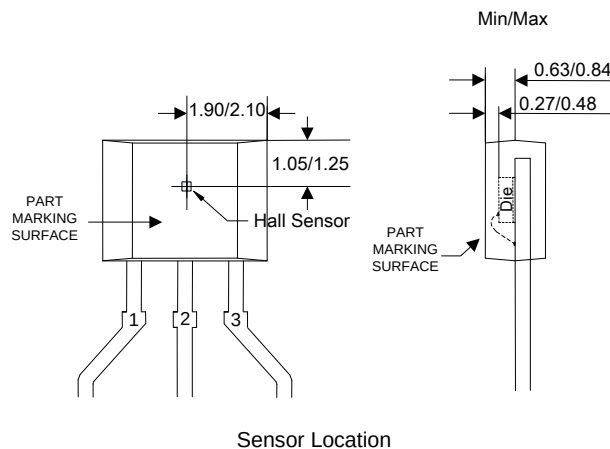
# Package Outline Dimensions (Cont.) (All dimensions in mm.)

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

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



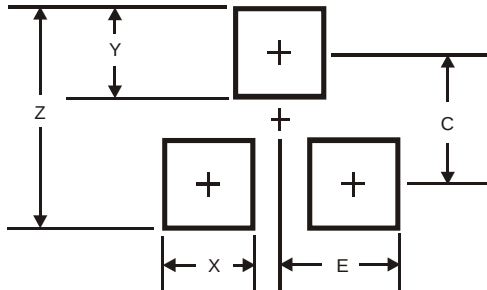
| SIP-3<br>(Ammo Pack) |          |       |       |
|----------------------|----------|-------|-------|
| Dim                  | Min      | Max   | Typ   |
| A                    | 1.40     | 1.60  | 1.50  |
| b                    | 0.33     | 0.43  | 0.38  |
| b2a                  | 0.40     | 0.52  | 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 |          |       |       |



## Suggested Pad Layout

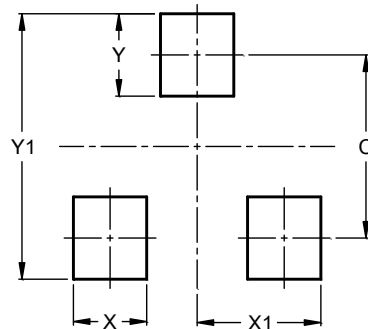
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### (1) Package Type: SC59



| Dimensions | Value (in mm) |
|------------|---------------|
| Z          | 3.4           |
| X          | 0.8           |
| Y          | 1.0           |
| C          | 2.4           |
| E          | 1.35          |

### (2) Package Type: SOT23



| Dimensions | Value (in mm) |
|------------|---------------|
| C          | 2.0           |
| X          | 0.8           |
| X1         | 1.35          |
| Y          | 0.9           |
| Y1         | 2.9           |

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