

## Description

The AH3363Q is an AECQ100 qualified high voltage high sensitivity Hall Effect Unipolar switch IC designed for position and proximity sensing in automotive applications such as in seat and seatbelt buckle, steering lock/immobilisation, gear stick, transmission actuator and gear position, HVAC compression, wiper, door/trunk closure, etc. To support wide range of 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 AH3363Q 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 over current limit and a Zener clamp.

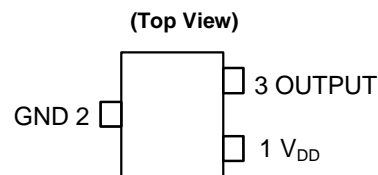
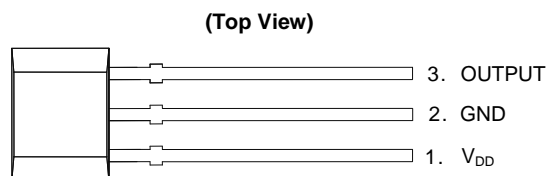
The single open drain output can be switched on with South pole of sufficient strength. When the magnetic flux density (B) perpendicular to the package is larger than the operate point ( $B_{OP}$ ) the output is switched on (pulled low) and is held on until magnetic flux density B is lower than the release point ( $B_{RP}$ ). The output remains switched off for North pole fields to or no magnetic fields.

The magnetic operating and release polarity is opposite for SOT23 and SC59 packages. The SOT23 and SIP-3 (Ammo Pack), 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 55G and 35G Typical
- Single Open Drain Output with Over Current 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
- $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  Operating Temperature
- ESD: HBM > 8kV, CDM: > 2kV
- AECQ100 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)**

## Pin Assignments


**SC59 and SOT23**

**SIP-3 (Bulk Pack)**

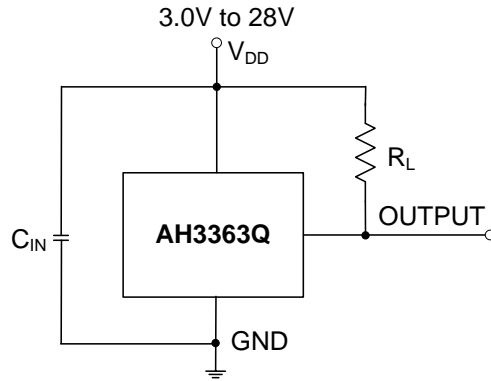
## Applications

- Position and Proximity Sensing in Automotive Applications
- Seat Position
- Seatbelt Buckle
- Steering Lock/Immobilisation
- Gear Stick
- HVAC Compression
- Transmission Actuator
- Transmission Gear Position
- Wipers
- Sunroof and Windows
- Door/Trunk Closure
- Door Locks
- Contact-Less Switches

Notes:

1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
2. See [http://www.diodes.com/quality/lead\\_free.html](http://www.diodes.com/quality/lead_free.html) 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.

**Typical Applications Circuit** (Note 4)



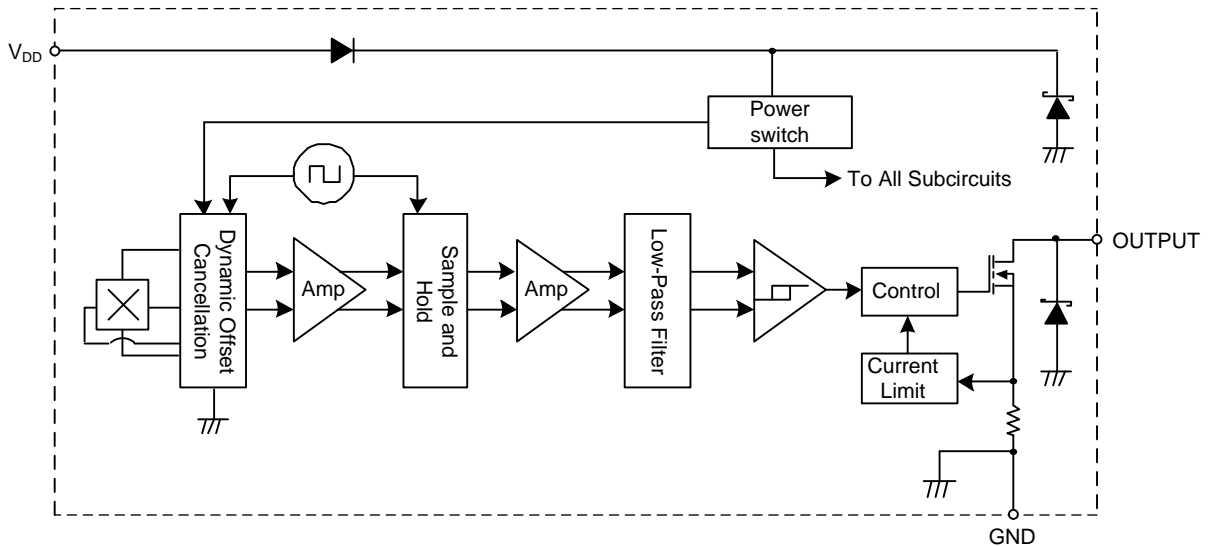
Note: 4.  $C_{IN}$  is for power stabilization and to strengthen the noise immunity, the recommended capacitance is 10nF ~ 100nF.  
 $R_L$  is the pull-up resistor.

**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** (Note 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 (Note 6)                                  | -32                                     | V    |    |
| V <sub>OUT_MAX</sub> | Output 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),<br>SIP-3 (Bulk Pack) | 550  | mW |
|                      |  | SC59 and SOT23                          | 230  |    |
| T <sub>s</sub>       | Storage Temperature Range  | -65 to +165                             | °C   |    |
| T <sub>J</sub>       | Maximum Junction Temperature                                     | +150                                    | °C   |    |
| ESD HBM              | Electros Static Discharge Withstand - Human Body Model (HBM)     | 8                                       | kV   |    |
| ESD MM               | Electros Static Discharge Withstand - Machine Model (MM)         | 800                                     | V    |    |
| ESD CDM              | Electros Static 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                   | Condition | 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** (Note 7 & 8) (@T<sub>A</sub> = -40°C to +150°C, V<sub>DD</sub> = 3V to 28V, unless otherwise specified.)

| Symbol              | Parameter   | Condition  | 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°C 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°C to +150°C | -   | 0.6  | 1500 | 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°C to +150°C | -   | 1.6  | 2500 | µA   |
| t <sub>p_ON</sub>   | Device Power-On Time (Start-up time)  | V <sub>DD</sub> ≥ 3V, B > Bop (Note 7)                   | -   | 10   | -    | µs   |
| f <sub>C</sub>      | Chopping Frequency  | -  | -   | 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 9)   | -   | 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 10)                                       | 30  | -    | 55   | mA   |
| V <sub>Z</sub>      | Zener Clamp Voltage   | I <sub>DD</sub> = 5mA                                    | 28  | -    | -    | V    |

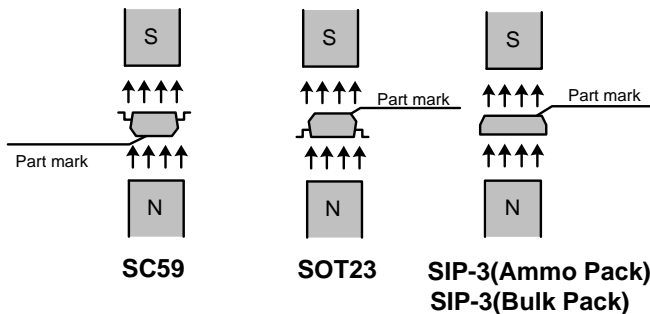
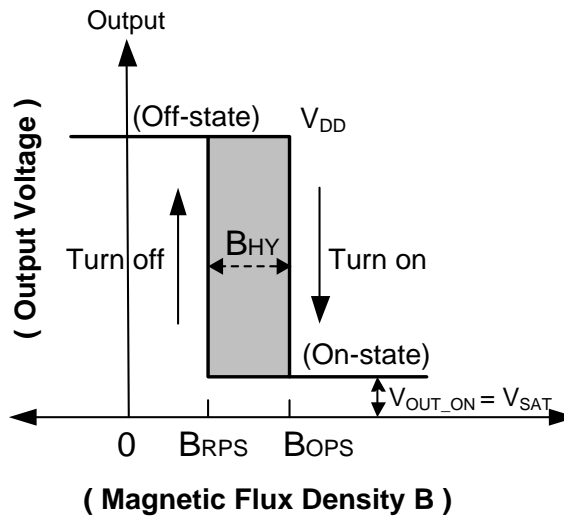
- Notes:
- When power is initially turned on, V<sub>DD</sub> must be within its correct operating range (3.0V to 28V) to guarantee the output sampling. The output state is valid after the start-up time of 10µs typical from the operating voltage reaching 3V.
  - Typical values are defined at T<sub>A</sub> = +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** (Note 11 &12) ( $T_A = -40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$ ,  $V_{DD} = 3.0\text{V}$  to  $28\text{V}$ , unless otherwise specified)

(1mT=10 Gauss)

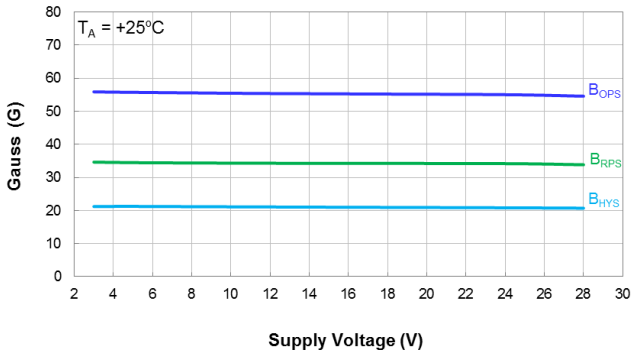
| Symbol  | Parameter            | Condition   | Min | Typ | Max | Unit  |
|---|----------------------|---|-----|-----|-----|-------|
| B <sub>OPS</sub> (South pole to the part marking side for SOT23 and SIP-3 (Ammo Pack), SIP-3 (Bulk Pack) packages; South pole to the non-part marking side for SC59 package. See diagram below) | Operation Point      | $V_{DD} = 12\text{V}$ , $T_A = +25^{\circ}\text{C}$   | -   | 55  | -   | Gauss |
|   |                      | $T_A = -40^{\circ}\text{C}$ to $+150^{\circ}\text{C}$ | 38  | 55  | 72  |       |
| B <sub>RPS</sub> (South pole to the part marking side for SOT23 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        | $V_{DD} = 12\text{V}$ , $T_A = +25^{\circ}\text{C}$   | -   | 35  | -   |       |
|   |                      | $T_A = -40^{\circ}\text{C}$ to $+150^{\circ}\text{C}$ | 20  | 35  | 50  |       |
| B <sub>HY</sub> ( $ B_{OPX}  -  B_{RPX} $ )   | Hysteresis (Note 13) | $V_{DD} = 12\text{V}$ , $T_A = +25^{\circ}\text{C}$   | -   | 20  | -   |       |
|   |                      | $T_A = -40^{\circ}\text{C}$ to $+150^{\circ}\text{C}$ | 12  | 20  | 28  |       |

- 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.

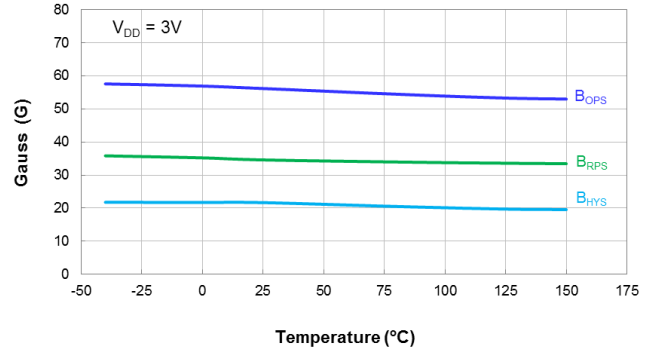


**Typical Operating Characteristics**

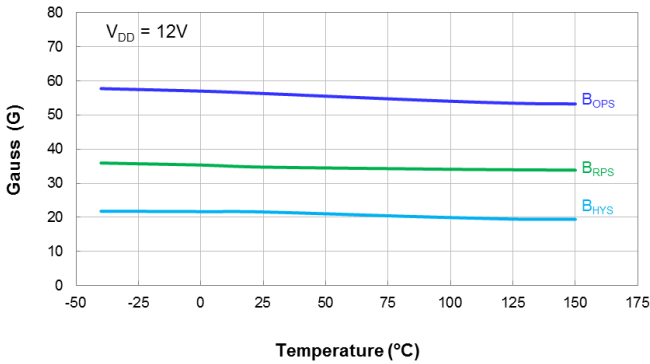
**Output Switch Operate and Release Points (Magnetic Thresholds) –  $B_{OPS}$  and  $B_{RPS}$**



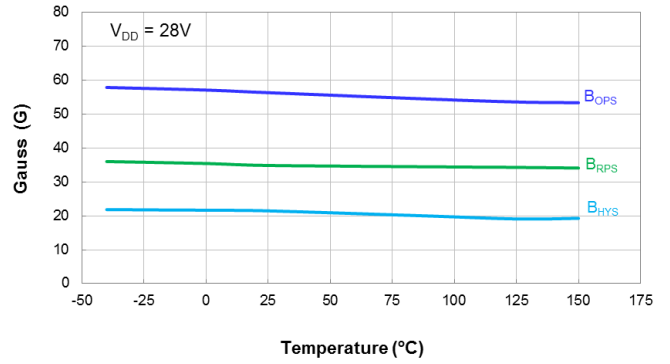
Switch Points  $B_{OPS}$  and  $B_{RPS}$  vs Supply Voltage



Switch Points  $B_{OPS}$  and  $B_{RPS}$  vs Temperature

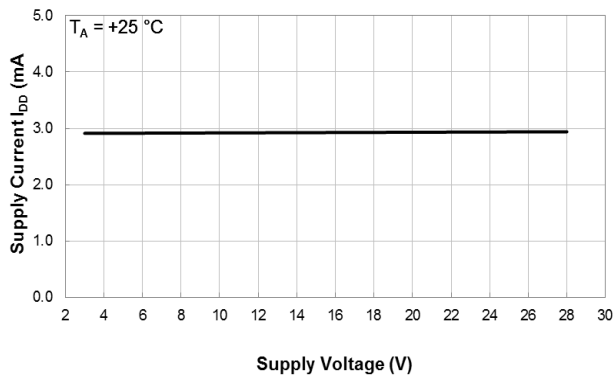


Switch Points  $B_{OPS}$  and  $B_{RPS}$  vs Temperature

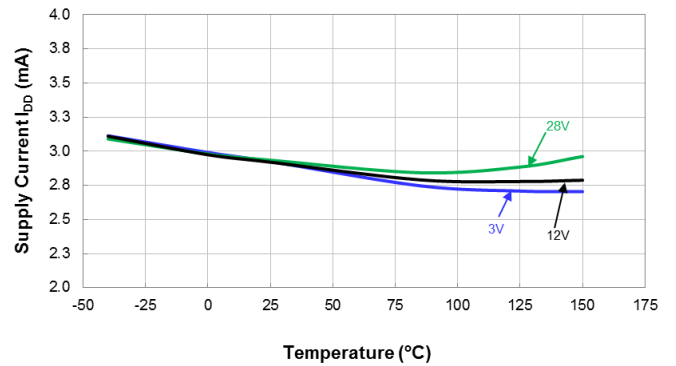


Switch Points  $B_{OPS}$  and  $B_{RPS}$  vs Temperature

**Supply Current**



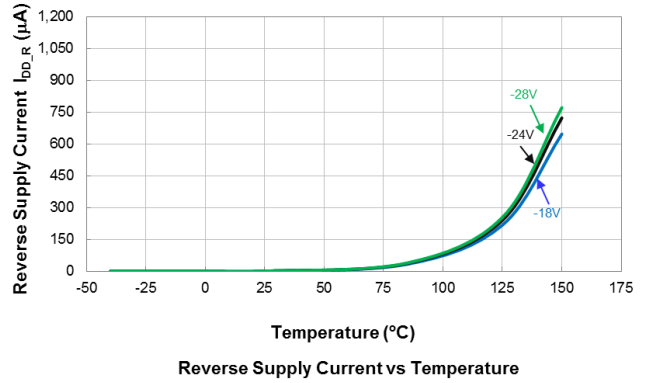
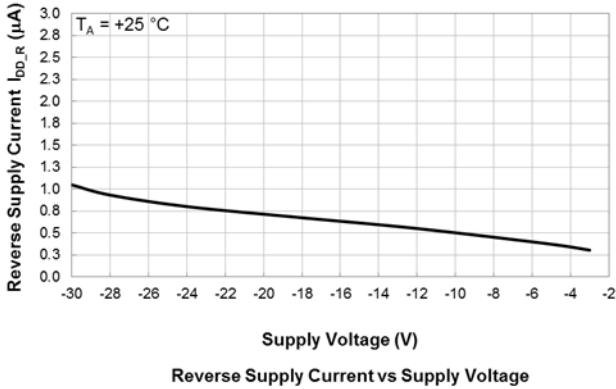
Supply Current vs Supply Voltage



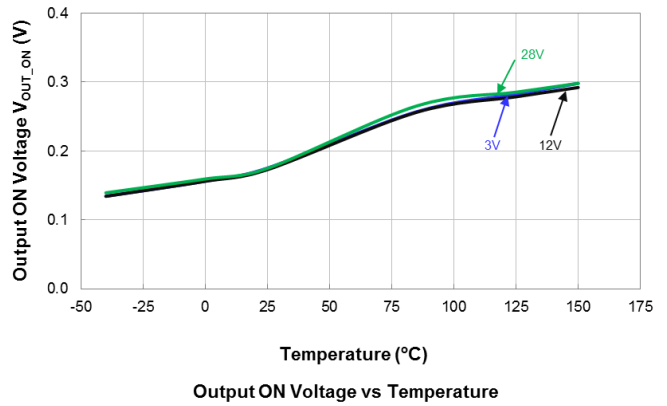
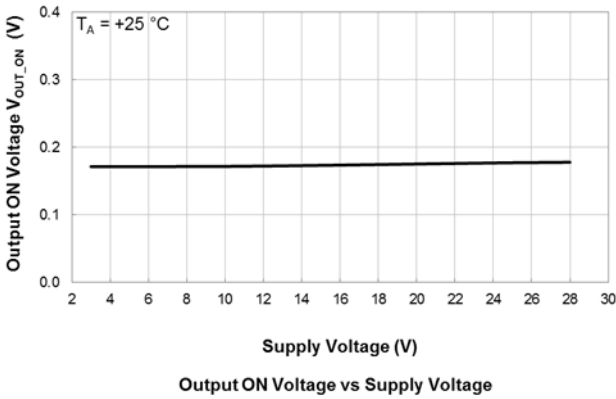
Supply Current vs Temperature

**Typical Operating Characteristics (Cont.)**

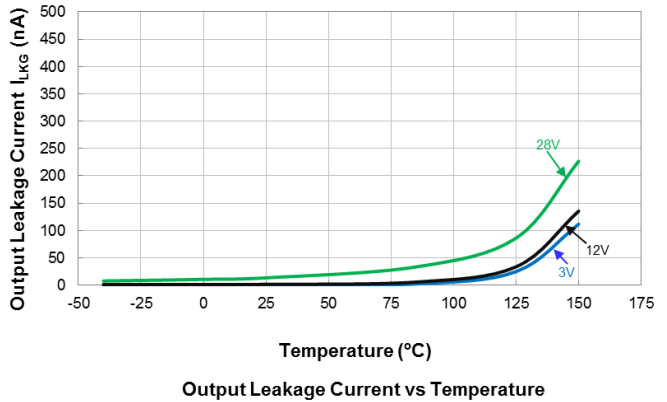
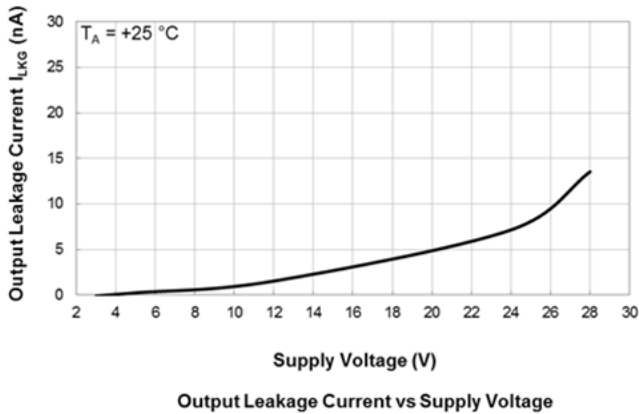
**Supply Reverse Current**



**Output Switch On Voltage**

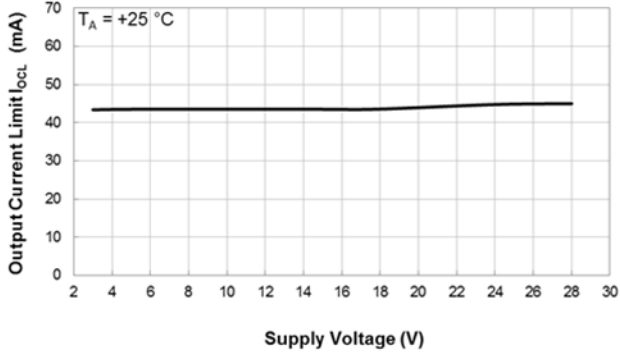


**Output Switch Leakage Current**

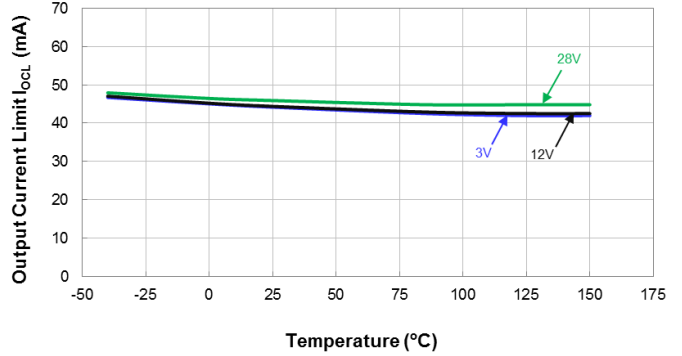


**Typical Operating Characteristics (Cont.)**

**Output Current Limit**



Output Current Limit vs Supply Voltage

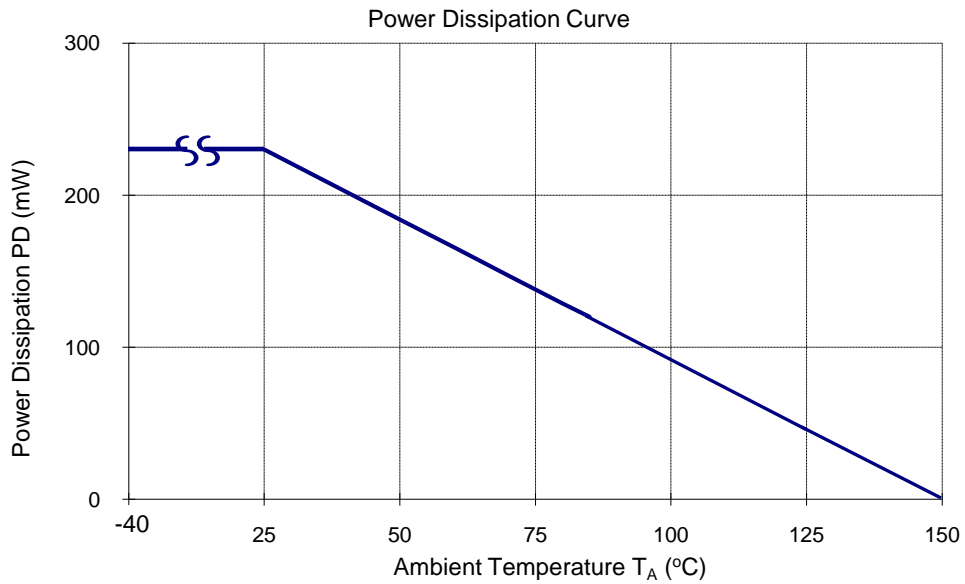


Output Current Limit vs Temperature

**Thermal Performance Characteristics**

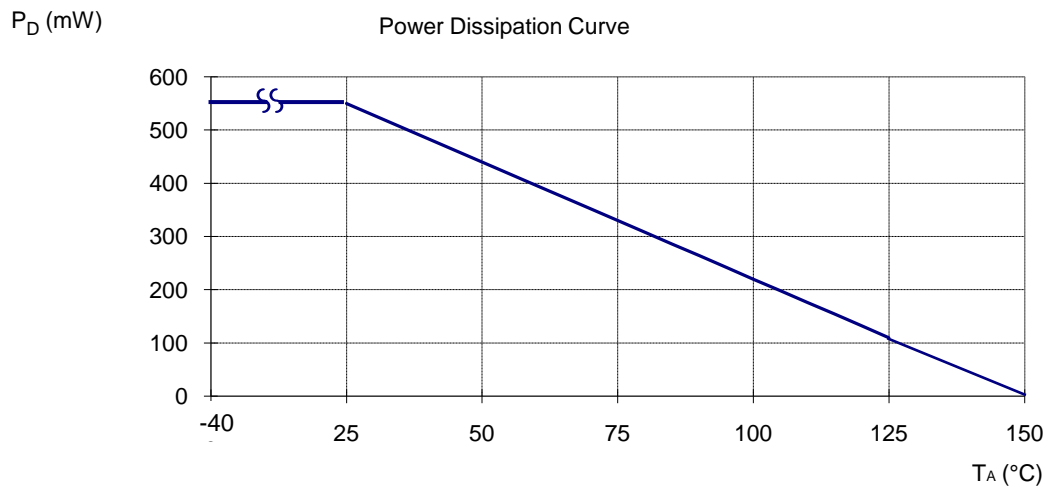
(1) Package type: SC59 and SOT23

| 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   |



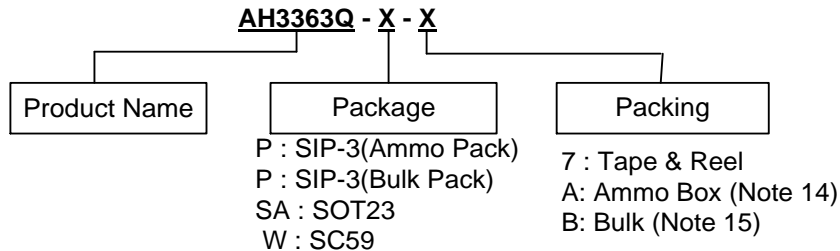
(2) Package type: SIP-3 (Ammo Pack), SIP-3 (Bulk Pack)

| 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**

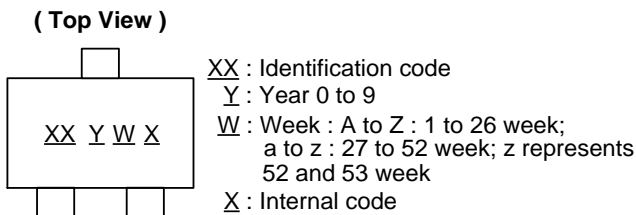


| Part Number  | Package Code | Packaging        | Bulk Box |                    | 7" Tape and Reel |                    | Ammo Box |                    |
|--------------|--------------|------------------|----------|--------------------|------------------|--------------------|----------|--------------------|
|              |              |                  | Quantity | Part Number Suffix | Quantity         | Part Number Suffix | Quantity | Part Number Suffix |
| AH3363Q-P-A  | P            | SIP-3(Ammo Pack) | NA       | NA                 | NA               | NA                 | 4000/Box | -A                 |
| AH3363Q-P-B  | P            | SIP-3(Bulk Pack) | 1000     | -B                 | NA               | NA                 | NA       | NA                 |
| AH3363Q-SA-7 | SA           | SOT23            | NA       | NA                 | 3000/Tape & Reel | -7                 | NA       | NA                 |
| AH3363Q-W-7  | W            | SC59             | NA       | NA                 | 3000/Tape & Reel | -7                 | NA       | NA                 |

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

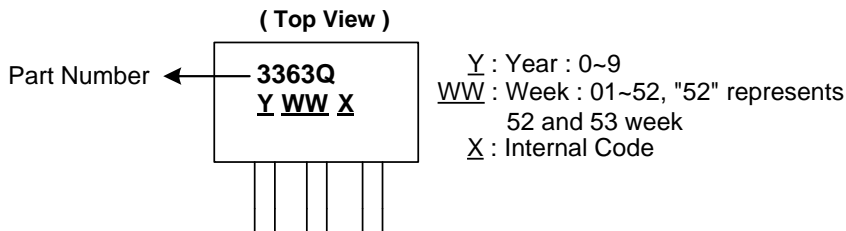
**Marking Information**

(1) Package Type: SC59 and SOT23



| Part Number | Package | Identification Code |
|-------------|---------|---------------------|
| AH3363Q     | SC59    | DT                  |
| AH3363Q     | SOT23   | MF                  |

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

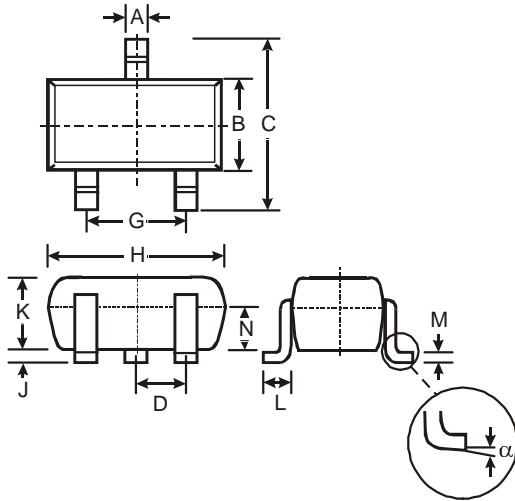


| Part Number | Package | Identification Code |
|-------------|---------|---------------------|
| AH3363Q     | SIP-3   | 3363Q               |

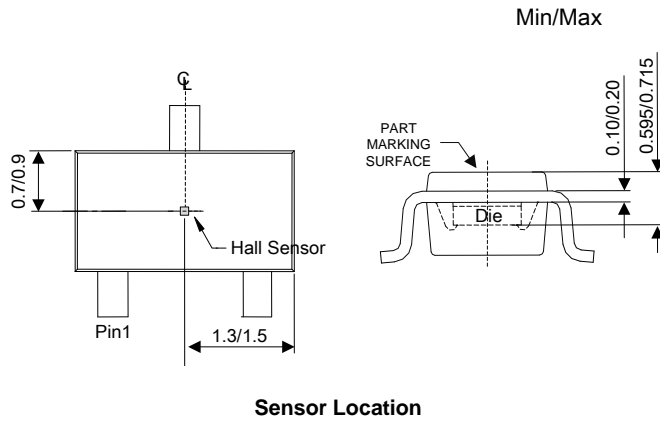
**Package Outline Dimensions** (All dimensions in mm.)

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

**(1) Package Type: SC59**



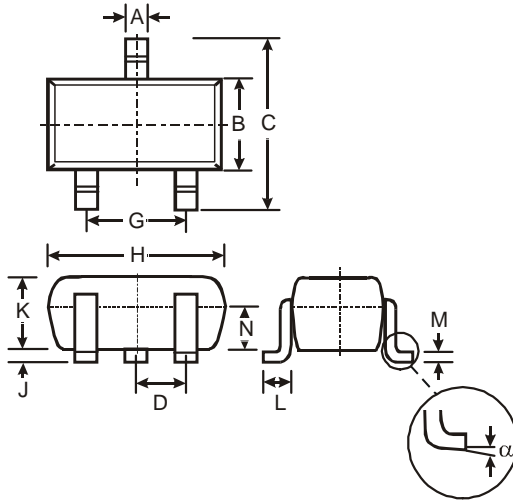
| SC59                 |       |      |      |
|----------------------|-------|------|------|
| Dim                  | Min   | Max  | Typ  |
| A                    | 0.35  | 0.50 | 0.38 |
| B                    | 1.50  | 1.70 | 1.60 |
| C                    | 2.70  | 3.00 | 2.80 |
| D                    | -     | -    | 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 |
| α                    | 0°    | 8°   | -    |
| All Dimensions in mm |       |      |      |



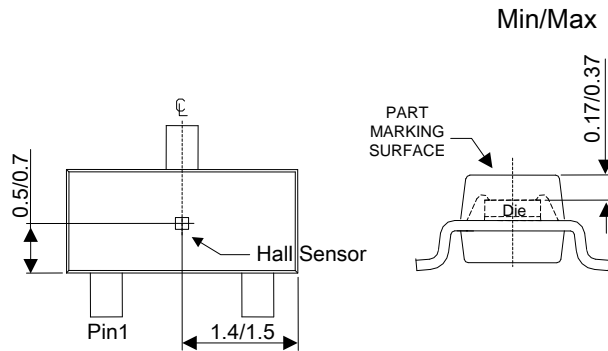
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**Package Outline Dimensions** (Cont.) (All dimensions in mm.)

(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                    | 0.903 | 1.10 | 1.00  |
| K1                   | -     | -    | 0.400 |
| L                    | 0.45  | 0.61 | 0.55  |
| M                    | 0.085 | 0.18 | 0.11  |
| $\alpha$             | 0°    | 8°   | -     |
| All Dimensions in mm |       |      |       |

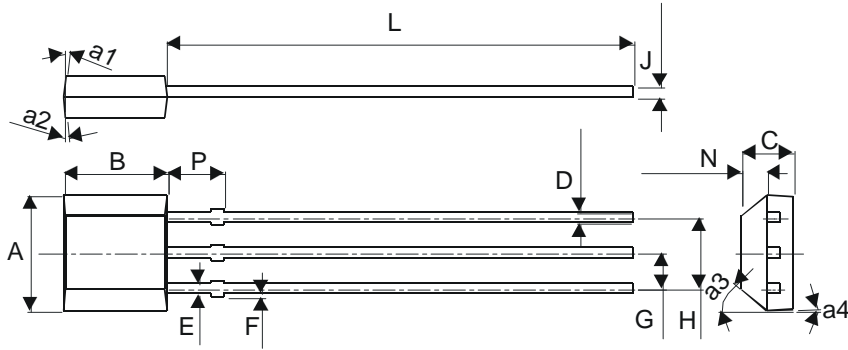


**Sensor Location**

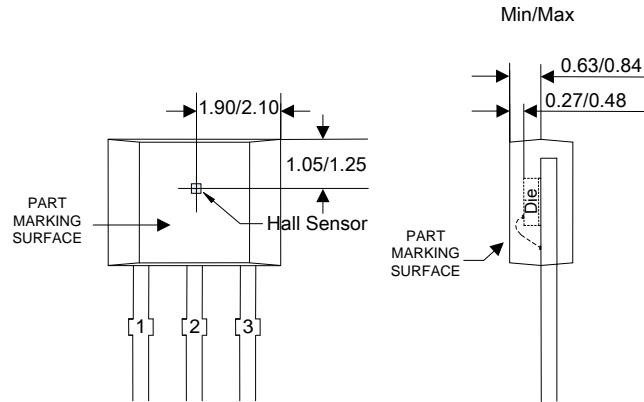
NEW PRODUCT

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

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



| SIP-3 (Bulk Pack)    |         |       |
|----------------------|---------|-------|
| Dim                  | Min     | Max   |
| A                    | 3.9     | 4.3   |
| a1                   | 5° Typ  |       |
| a2                   | 5° Typ  |       |
| a3                   | 45° Typ |       |
| a4                   | 3° Typ  |       |
| B                    | 2.8     | 3.2   |
| C                    | 1.40    | 1.60  |
| D                    | 0.33    | 0.432 |
| E                    | 0.40    | 0.508 |
| F                    | 0       | 0.2   |
| G                    | 1.24    | 1.30  |
| H                    | 2.51    | 2.57  |
| J                    | 0.35    | 0.43  |
| L                    | 14.0    | 15.0  |
| N                    | 0.63    | 0.84  |
| P                    | 1.55    | -     |
| All Dimensions in mm |         |       |

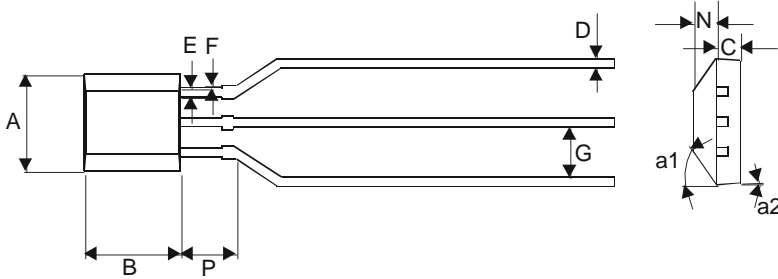


**Sensor Location**

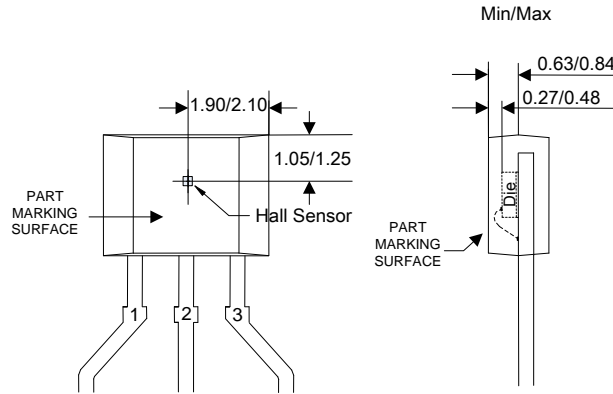
NEW PRODUCT

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

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



| SIP-3 (Ammo Pack)    |         |      |
|----------------------|---------|------|
| Dim                  | Min     | Max  |
| A                    | 3.9     | 4.3  |
| a1                   | 45° Typ |      |
| a2                   | 3° Typ  |      |
| B                    | 2.8     | 3.2  |
| C                    | 1.40    | 1.60 |
| D                    | 0.35    | 0.41 |
| E                    | 0.43    | 0.48 |
| F                    | 0       | 0.2  |
| G                    | 2.4     | 2.9  |
| N                    | 0.63    | 0.84 |
| P                    | 1.55    | -    |
| All Dimensions in mm |         |      |



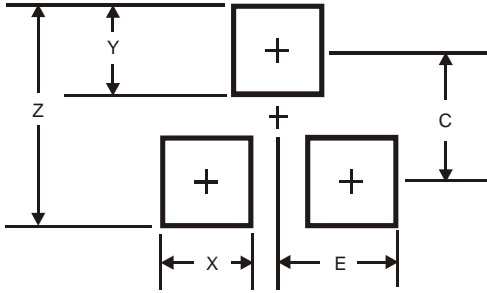
**Sensor Location**

NEW PRODUCT

**Suggested Pad Layout**

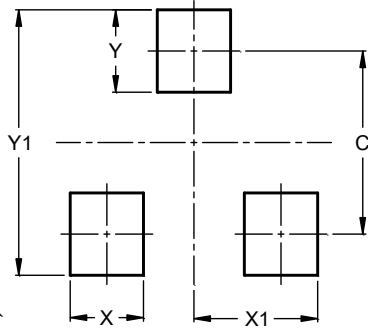
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

(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           |

NEW PRODUCT

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B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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