

CHA92X/CHI92X

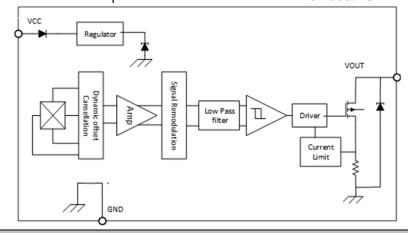
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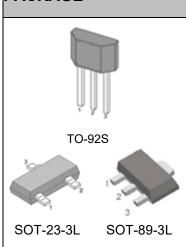
Preliminary Datasheet 1.4

FEATURES and FUNCTIONAL DIAGRAM

- AEC-Q100 automotive qualified (CHA92X)
- Digital Unipolar-Switch Hall Sensor
- Superior Temperature Stability
- Multiple Sensitivity Options (BOP / BRP):
 +30 / +15 Gauss; +70 / +30 Gauss; +140 / 60 Gauss; +150 /
 +100 Gauss; +250 / +200 Gauss
- On board voltage regulator for 2.5V to 22V range
- Open Drain Output (25-mA Sink)
- Resistant to physical stress
- Output short-circuit protection
- Operation from unregulated supply
- Reverse-battery and freewheeling protection
- Solid-state reliability
- Wide Operating temperature range: -40 to 150 °C
- Small package sizes TO-92S, SOT23 and SOT-89
- RoHS-compliant material meets directive 2011/65/EU



PACKAGE



(by request)

APPLICATIONS

-Docking Detection
-Door Open and Close
Detection
-Proximity Sensing
-Valve Positioning
-Pulse Counting
-Flow rate sensing
-Robotic control (cylinder position monitoring)
-Float-based fluid level sensing
-Speed and RPM sensing in fitness equipment

DESCRIPTION

The CHA92X/CHI92X Hall-effect sensor is extremely temperature-stable and stress-resistant sensor ICs, especially suited for operation over extended temperature ranges from -40°C to 150°C. Superior high temperature performance is possible through dynamic offset cancellation, which reduces the residual offset voltage normally caused by device over-molding, temperature dependencies, and thermal stress.

The device includes a voltage regulator, Hall-voltage generator, small-signal amplifier, chopper stabilization, Schmitt trigger, and a short circuit protected open-drain output to sink up to 25 mA.

An on-board regulator permits operation with supply voltages of 2.5 to 22 V. The advantage of operating down to 2.5V is that the device can used in 2.5V applications or with additional external resistance in series with the supply pin for greater protection against high-voltage transient events.

The CHA92X/CHI92X series is digital unipolar Hall switch. When the applied magnetic flux density exceeds the BOP threshold, the chip open-drain output goes low. The output stays low until the field decreases to less than BRP, and then the output goes to high impedance.

The CHA92X/CHI92X also integrated internal clamps against supply/output transients; output short circuits protection; reverse battery conditions.

Three package styles provide a magnetically optimized package for most applications, SOT-23, TO-92S and SOT-89. Each package type is lead (Pb) free (suffix, -T), with a 100% matte-tin-plated lead-frame.

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Preliminary Datasheet 1.4

Table of Contents

| 1. Product Family Members | 3 |
|-------------------------------------|----|
| 2. Pin Definitions and Descriptions | 3 |
| 3. Absolute Maximum Ratings | 4 |
| 4. ESD Protections | 4 |
| 5. Function Description | 5 |
| 6. Definition of Switching Function | 5 |
| 7. Temperature Characterization | 5 |
| 8. Parameters Specification | 6 |
| 9. Application infromation | 8 |
| 10.Test Condition | 10 |
| 11. Package Information | 11 |



CHA92X/CHI92X

Automotive Product Group

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1. Product Family Members

| Part Number | Marking ID | Description |
|----------------|------------|--|
| 1 alt Nullibel | Marking ID | · · · · · · · · · · · · · · · · · · · |
| CHA921SR | C921 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHA921TB | C921 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHA921ER | C921 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHA922SR | C922 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| СНА922ТВ | C922 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHA922ER | C922 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHA923SR | C923 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| СНА923ТВ | C923 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHA923ER | C923 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHA924SR | C924 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHA924TB | C924 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHA924ER | C924 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHA925SR | C925 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHA925TB | C925 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHA925ER | C925 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHI921SR | l921 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHI921TB | l921 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHI921ER | I921 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHI922SR | 1922 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHI922TB | 1922 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHI922ER | 1922 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHI923SR | 1923 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHI923TB | 1923 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHI923ER | 1923 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHI924SR | 1924 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |



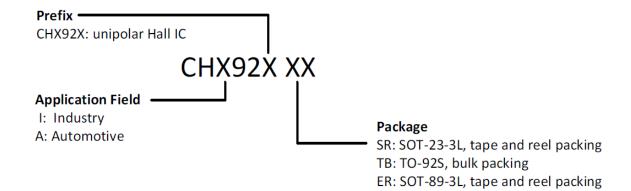
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| CHI924TB | 1924 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
|----------|------|--|
| CHI924ER | 1924 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |
| CHI925SR | 1925 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-23-3L package, tape and reel packing (3000 units per reel) |
| CHI925TB | 1925 | Unipolar-Switch, Hall-effect digital sensor IC, flat, TO-92S package, bulk packing (1000 units per bag) |
| CHI925ER | 1925 | Unipolar-Switch, Hall-effect digital sensor IC, SOT-89-3L package, tape and reel packing (1000 units per reel) |





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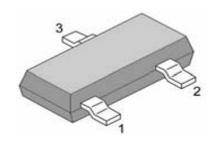
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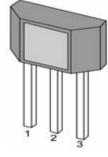
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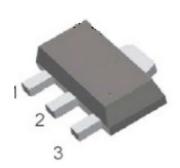
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2. Pin Definitions and Descriptions

| SOT-23-3L (S) | TO-92S (T) | SOT-89-3L (E) | Name | Туре | Function |
|------------------|---------------|------------------|------|--------|---------------------------|
| 1 | 1 | 1 | VDD | Supply | Supply Voltage pin |
| 2 | 3 | 3 | OUT | Output | Open Collector Output pin |
| 3 | 2 | 2 | GND | Ground | Ground pin |







SOT-23-3L

TO-92S

SOT-89-3L

3. Absolute Maximum Ratings

| Parameter | Symbol | Min | Max | Units |
|-------------------------------|------------------|------|-------|-------|
| Supply Voltage | V_{DD} | - | 24 | V |
| VDD Reverse Voltage VDD | V_{RDD} | -22 | | V |
| Supply Current | I _{DD} | - | 20 | mA |
| Output Voltage | V _{OUT} | -0.3 | 24 | V |
| Output Current | I _{OUT} | - | 25 | mA |
| Operating Ambient Temperature | T _A | -40 | 150 | °C |
| Storage Temperature | Ts | -50 | 150 | °C |
| Junction temperature | TJ | -50 | 165 | °C |
| Magnetic Flux | В | No I | Limit | Gauss |

Note: Exceeding the absolute maximum ratings may cause permanent damage. Exposure to absolute-maximum- rated conditions for extended periods may affect device reliability.

4. ESD Protections

| Parameter | Value | Unit |
|------------------------|---------|------|
| All pins 1) | +/-8000 | V |
| All pins ²⁾ | +/-200 | V |
| All pins 3) | +/-750 | V |

- 1) HBM (Human Body Mode) according to AEC-Q100-002
- 2) MM (Machine Mode) according to AEC-Q100-003
- 3) CDM (charged device mode) according to AEC-Q100-011



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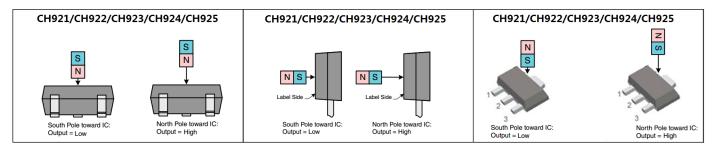
5. Function Description

The CHA92X/CHI92X exhibits digital unipolar switching characteristics. Therefore, it requires only south poles or north poles (depend on the package type) to operate properly.

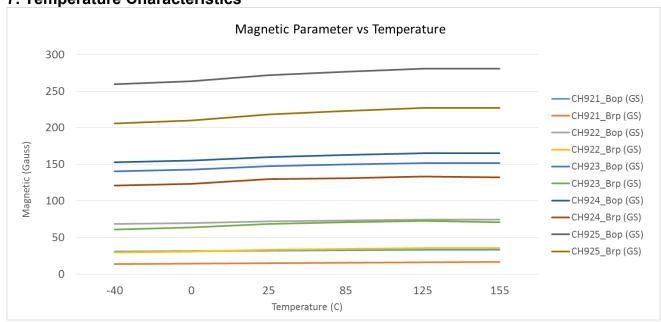
When the applied magnetic flux density exceeds the BOP threshold, the chip open-drain output goes low. The output stays low until the field decreases to less than BRP, and then the output goes to high impedance.

A magnetic hysteresis BHYST keeps BOP and BRP separated by a minimal value. This hysteresis prevents output oscillation near the switching point.

6. Magnetic Activation



7. Temperature Characteristics





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8. Parameters Specification (VCC=3.3V supply, TA= -40 °C to 150 °C except

where otherwise specified.)

| | therwise specified.) | | | | | |
|--------------------------------|---|---|-----|-------------------|-----|-----------------------|
| Symbol | Parameter | Test Condition | Min | Тур. | Max | Units |
| V_{DD} | Supply voltage | -40 °C to 150 °C | 2.5 | - | 22 | V |
| I_{DD} | Supply Current | $V_{DD} = 3.3V$ | - | 1.6 | 3 | mA |
| V _{ZSUPPLY} | Supply Zener Clamp Voltage | I _{CC} =7 mA; TA = 25°C | 24 | | | V |
| V _{ZOUT} | Output Zener Clamp Voltage | I _{OUT} = 3mA | 24 | | | V |
| V_{RCC} | Reverse Battery Zener | | | | -22 | V |
| I _{RCC} | Reverse Battery Current | V _{CC} = -22 V | -5 | | | mA |
| Fc | Chopping Frequency | | | 500 | | KHz |
| t _{PO} | Power-On Time | TA = 25° C; $C_{LOAD} = 10$ pF | ı | _ | 30 | μs |
| V_{DSon} | Output saturation voltage | at 20mA, Gauss >BOP | - | - | 0.4 | V |
| I _{OFF} | Output Leakage Current | VOUT = 24 V; Switch state = Off | - | - | 10 | uA |
| $I_{OUT(lim)}$ | Output Current Limit | Short-Circuit Protection | 30 | _ | 90 | mA |
| T _R | Output rise time | R_{LOAD} = 820 Ω , C_{LOAD} = 10 pF; | - | 0.2 | 2 | uS |
| T _F | Output fall time | R_{LOAD} = 820 Ω , C_{LOAD} = 10 pF; | - | 0.1 | 2 | uS |
| T _d | Output delay Time | B=Brp-100G to Bop+100G in 1us | | 13 | 25 | μs |
| R _{тн} | Thermal resistance: SOT-23-3L TO-92S SOT-89-3L | - | | 303 203 230 | | °C /W °C/W °C/W |
| F _{SW} ⁽²⁾ | Maximum Switching Frequency | | 20 | 30 | | KHz |
| Т | Operating temperature | - | -40 | - | 150 | °C |
| Ts | Storage temperature: | - | -40 | - | 150 | °C |
| CHA921/0 | CHI921 | | | | | |
| B _{OP} | Magnetic operating point | T _A =-40°C to 150°C | 20 | 35 | 50 | Gauss |
| B _{RP} | Magnetic release point | T _A =-40°C to 150°C | 10 | 20 | 40 | Gauss |
| B _{HYST} | Magnetic hysteresis window BOP-BRP | T _A =-40°C to 150°C | 10 | 15 | 30 | Gauss |
| Bo | Magnetic offset; B _O = (BOP + BRP) / 2 | T _A =-40°C to 150°C | | 27.5 | | Gauss |
| CHA922/0 | 1 | , | | | | |
| B _{OP} | Magnetic operating point | T _A =-40°C to 150°C | 40 | 60 | 80 | Gauss |
| B _{RP} | Magnetic release point | T _A =-40°C to 150°C | 20 | 30 | 50 | Gauss |
| Внуѕт | Magnetic hysteresis window BOP-BRP | T _A =-40°C to 150°C | 15 | 30 | 45 | Gauss |
| Bo | Magnetic offset; B _O = (BOP + BRP) / 2 | T _A =-40°C to 150°C | | 45 | | Gauss |
| CHA923/0 | | | | | | |
| Bop | Magnetic operating point | T _A =-40°C to 150°C | 110 | 140 | 170 | Gauss |



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| Preliminary I | Datasheet 1.4 | 4 |
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|---------------|---------------|---|

| B_RP | Magnetic release point | T _A =-40°C to 150°C | 40 | 60 | 80 | Gauss |
|-------------------|---|--------------------------------|-----|-----|-----|-------|
| B _{HYST} | Magnetic hysteresis window BOP-BRP | T _A =-40°C to 150°C | 50 | 80 | 110 | Gauss |
| Bo | Magnetic offset; B _O = (BOP + BRP) / 2 | T _A =-40°C to 150°C | | 100 | | Gauss |
| CHA924/0 | CHI924 | | | | | |
| B _{OP} | Magnetic operating point | T _A =-40°C to 150°C | 120 | 145 | 170 | Gauss |
| B _{RP} | Magnetic release point | T _A =-40°C to 150°C | 80 | 105 | 130 | Gauss |
| Внуѕт | Magnetic hysteresis window BOP-BRP | T _A =-40°C to 150°C | 25 | 40 | 60 | Gauss |
| Bo | Magnetic offset; B ₀ = (BOP + BRP) / 2 | T _A =-40°C to 150°C | | 125 | | Gauss |
| CHA925/0 | CHI925 | | | | | |
| Bop | Magnetic operating point | T _A =-40°C to 150°C | 210 | 250 | 290 | Gauss |
| B _{RP} | Magnetic release point | T _A =-40°C to 150°C | 160 | 200 | 240 | Gauss |
| B _{HYST} | Magnetic hysteresis window BOP-BRP | T _A =-40°C to 150°C | 25 | 50 | 75 | Gauss |
| Bo | Magnetic offset; B ₀ = (BOP + BRP) / 2 | T _A =-40°C to 150°C | | 225 | | Gauss |

^{(1) 1} mT = 10 Gauss

NOTICE

The magnetic field strength (Gauss) required to cause the switch to change state (operate and release) will be as specified in the magnetic characteristics. To test the switch against the specified magnetic characteristics, the switch must be placed in a uniform magnetic field.

⁽²⁾ Bandwidth describes the fastest changing magnetic field that can be detected and translated to the output.



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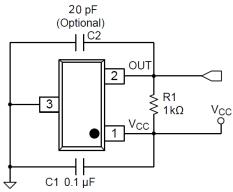
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9. Application Information

9.1 Typical Application

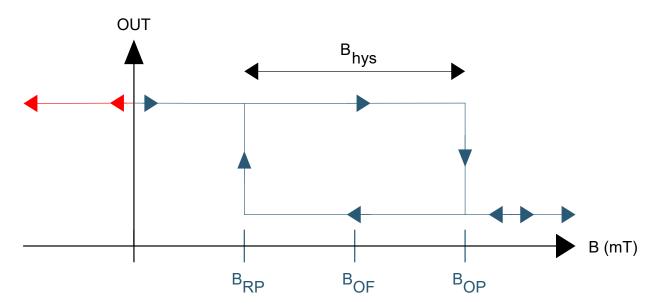
It is recommended that an external capacitor C1 is connected to the supply. This can reduce the noise injected into the device. Normal 0.1uF is suggested.



Typical Application Circuit

9.2 Device Output

If the device is powered on with a magnetic field strength between BRP and BOP, then the device output is indeterminate and can either be Hi-Z or Low. If the field strength is greater than BOP, then the output is pulled low. If the field strength is less than BRP, then the output is released.



9.3 Output Stage

The CHA92X/CHI92X output stage uses an open-drain NMOS, and it is rated to sink up to 30 mA of current. For proper operation, calculate the value of the pullup resistor R1 using Equation 1.

$$\frac{V_{ref} max}{30 mA} \le R1 \le \frac{V_{ref} min}{100 \mu A} \tag{1}$$

The size of R1 is a tradeoff between the OUT rise time and the current when OUT is pulled low. A lower current is generally better, however faster transitions and bandwidth require a smaller resistor for faster switching. In addition, ensure that the value of R1 > 500 Ω to ensure the output driver can pull the OUT pin close to GND.

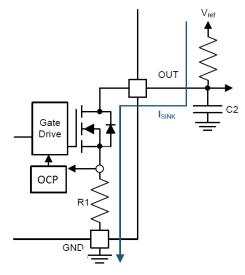


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Select a value for C2 based on the system bandwidth specifications as shown in Equation 2.

$$2 \times f_{\text{BW}} \text{ (Hz)} < \frac{1}{2\pi \times \text{R1} \times \text{C2}}$$
 (2)

Most applications do not require this C2 filtering capacitor.

9.4 Protection Circuits

The CHA92X/CHI92X device is fully protected against overcurrent and reverse-supply conditions.

9.5 Overcurrent Protection (OCP)

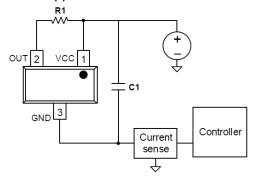
An analog current-limit circuit limits the current through the FET. The driver current is clamped to IOCP. During this clamping, the rDS(on) of the output FET is increased from the nominal value.

9.6 Reverse Supply Protection

The CHA92X/CHI92X device is protected in the event that the VCC pin and the GND pin are reversed (up to –22 V).

9.7 Alternative Two-Wire Application

For systems that require minimal wire count, the device output can be connected to VCC through a resistor, and the total supplied current can be sensed near the controller.



2-Wire Application

Current can be sensed using a shunt resistor or other circuitry.



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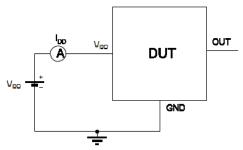
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10. Test Conditions

Note: DUT=Device Under Test

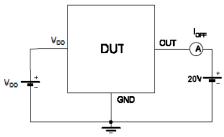
Supply Current



Note 1 - The supply current lop represents the static supply current. OUT is left open during measurement

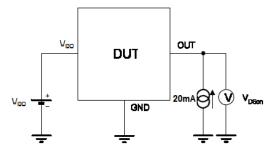
Note 2 - The device is put under magnetic field with B<BRP

Output Leakage Current



Note 1 - The device is put under magnetci field with B<BRP

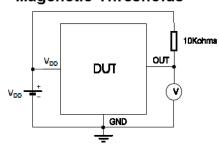
Output Saturation Voltage



Note 1 - The output saturation voltage V_{DSon} is measeured at V_{DD} =3.3V and V_{DD} =20V

Note 2 - The device is put under magnetic field with B>Bop

Magenetic Thresholds



Note 1 - Bop is determined by putting the device under magnetic field swept from BRPmin up to Bopmax until the output is switched on.

Note 2 - BRP is determined by putting the device under magnetic field swept from BoPmax down to BRPmin until the output is switched off.



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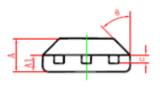
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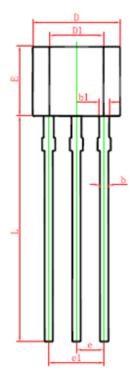
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11. Package Information:

PACKAGE DESIGNATOR

TO-92S







| Symbol | Dimensions | Dimensions In Millimeters | | s In Inches | |
|--------|------------|---------------------------|----------|-------------|--|
| Symbol | Min. | Max. | Min. | Max. | |
| Α | 1.420 | 1.620 | 0.056 | 0.064 | |
| A1 | 0.660 | 0.860 | 0.026 | 0.034 | |
| b | 0.350 | 0.480 | 0.014 | 0.019 | |
| b1 | 0.400 | 0.550 | 0.016 | 0.022 | |
| С | 0.360 | 0.510 | 0.014 | 0.020 | |
| D | 3.900 | 4.100 | 0.154 | 0.161 | |
| D1 | 2.280 | 2.680 | 0.090 | 0.106 | |
| E | 3.050 | 3.250 | 0.120 | 0.128 | |
| е | 1.270 TYP. | | 0.050 | TYP. | |
| e1 | 2.440 | 2.640 | 0.096 | 0.104 | |
| L | 15.100 | 15.500 | 0.594 | 0.610 | |
| θ | 45° | TYP. | 45° TYP. | | |



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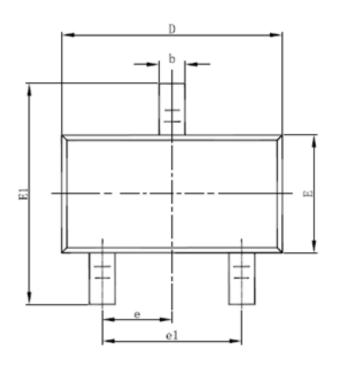
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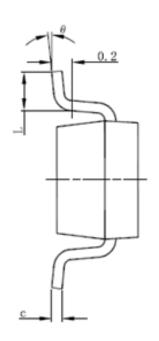
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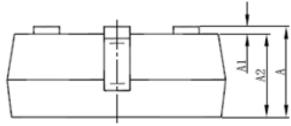
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PACKAGE DESIGNATOR

SOT-23-3L







| Comb o l | Dimensions In | Millimeters | Dimensions | In Inches |
|----------|---------------|-------------|------------|-----------|
| Symbol | Min | Max | Min | Max |
| Α | 1.050 | 1.250 | 0.041 | 0.049 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 1.050 | 1.150 | 0.041 | 0.045 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| С | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 2.820 | 3.020 | 0.111 | 0.119 |
| E | 1.500 | 1.700 | 0.059 | 0.067 |
| E1 | 2.650 | 2.950 | 0.104 | 0.116 |
| е | 0.950 | (BSC) | 0.037(| BSC) |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.300 | 0.600 | 0.012 | 0.024 |
| θ | 0° | 8° | 0° | 8° |



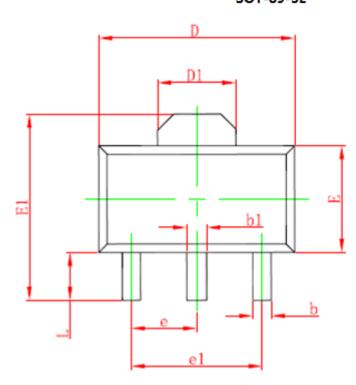
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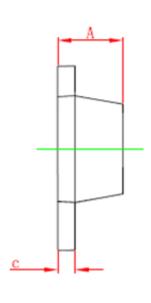
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Preliminary Datasheet 1.4

PACKAGE DESIGNATOR SOT-89-3L





| Cumbal | Dimensions In Millimeters | | Dimension | s In Inches | |
|--------|---------------------------|------------|------------|-------------|--|
| Symbol | Min. | Max. | Min. | Max. | |
| Α | 1.400 | 1.600 | 0.055 | 0.063 | |
| b | 0.320 | 0.520 | 0.013 | 0.020 | |
| b1 | 0.400 | 0.580 | 0.016 | 0.023 | |
| С | 0.350 | 0.440 | 0.014 | 0.017 | |
| D | 4.400 | 4.600 | 0.173 | 0.181 | |
| D1 | 1.550 REF. | | 0.061 | REF. | |
| E | 2.300 | 2.600 | 0.091 | 0.102 | |
| E1 | 3.940 | 4.250 | 0.155 | 0.167 | |
| е | 1.500 | 1.500 TYP. | | 0.060 TYP. | |
| e1 | 3.000 | TYP. | 0.118 TYP. | | |
| L | 0.900 | 1.200 | 0.035 | 0.047 | |



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Preliminary Datasheet 1.4

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