



钛迪半导体
Tudi Semiconductor

Product Specification

TUDI-MAX706P/R/S/T/AP/AR/AS/AT MAX708R/S/T

+3V Voltage Monitoring, Low-Cost μ P Supervisory Circuits

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semiconductor device
manufacturer

- Design
- research and development
- production
- and sales



Features

- Precision Supply-Voltage Monitors
 - 2.63V (706P/R, 706AP/AR, and 708R)
 - 2.93V (706S, MAX706AS, and 708S)
 - 3.08V (706T, 706AT, and 708T)
- 200ms Reset Time Delay
- Debounced TTL/CMOS-Compatible Manual Reset Input
- 100 μ A Quiescent Current
- WDI Disable Feature (706AP/AR/AS/AT)
- Watchdog Timer: 1.6s Timeout

- Reset Output Signal:
 - Active-High Only (706P, 706AP)
 - Active-Low Only (706R/S/T, 706AR/AS/AT)
 - Active-High and Active-Low (708R/S/T)
- Voltage Monitor for Power-Fail or Low-Battery Warning
- 8-Pin Surface-Mount Package
- Guaranteed RESET Assertion to VCC = 1V

Explanation

The MAX706P/R/S/T, MAX706AP/AR/AS/AT, and MAX708R/S/T microprocessor (μ P) supervisory circuits reduce the complexity and number of components required to monitor +3V power-supply levels in +3V to +5V μ P systems. These devices significantly improve system reliability and accuracy compared to separate ICs or discrete components.

The MAX706P/R/S/T and MAX706AP/AR/AS/AT supervisory circuits provide the following four functions:

- 1) A reset output during power-up, power-down, and brownout conditions.
- 2) An independent watchdog output that goes low if the watchdog input has not been toggled within 1.6s.
- 3) A 1.25V threshold detector for power-fail warning, low-battery detection, or for monitoring a power supply other than the main supply.
- 4) An active-low, manual-reset input.

The only difference between the MAX706R/AR, MAX706S/AS, and MAX706T/AT is the reset-threshold voltage levels, which are 2.63V, 2.93V, and 3.08V, respectively. All have active-low reset output signals.

The MAX706P/AP are identical to the MAX706R/AR, except the reset output signal is active-high. The watchdog timer function for the MAX706AP/AR/AS/AT disables when the WDI input is left open or connected to a

high-impedance state of a low-leakage tri-state output.

The MAX708R/S/T provide the same functions as the MAX706R/S/T and MAX706AR/AS/AT except they do not have a watchdog timer. Instead, they provide both RESET and RESET outputs. As with the MAX706, devices with R, S, and T suffixes have reset thresholds of 2.63V, 2.93V, and 3.08V, respectively.

Applications

- Battery-Powered Equipment
- Portable Instruments
- Computers
- Intelligent Instruments
- Critical μ P Power Monitoring



Functional Diagram

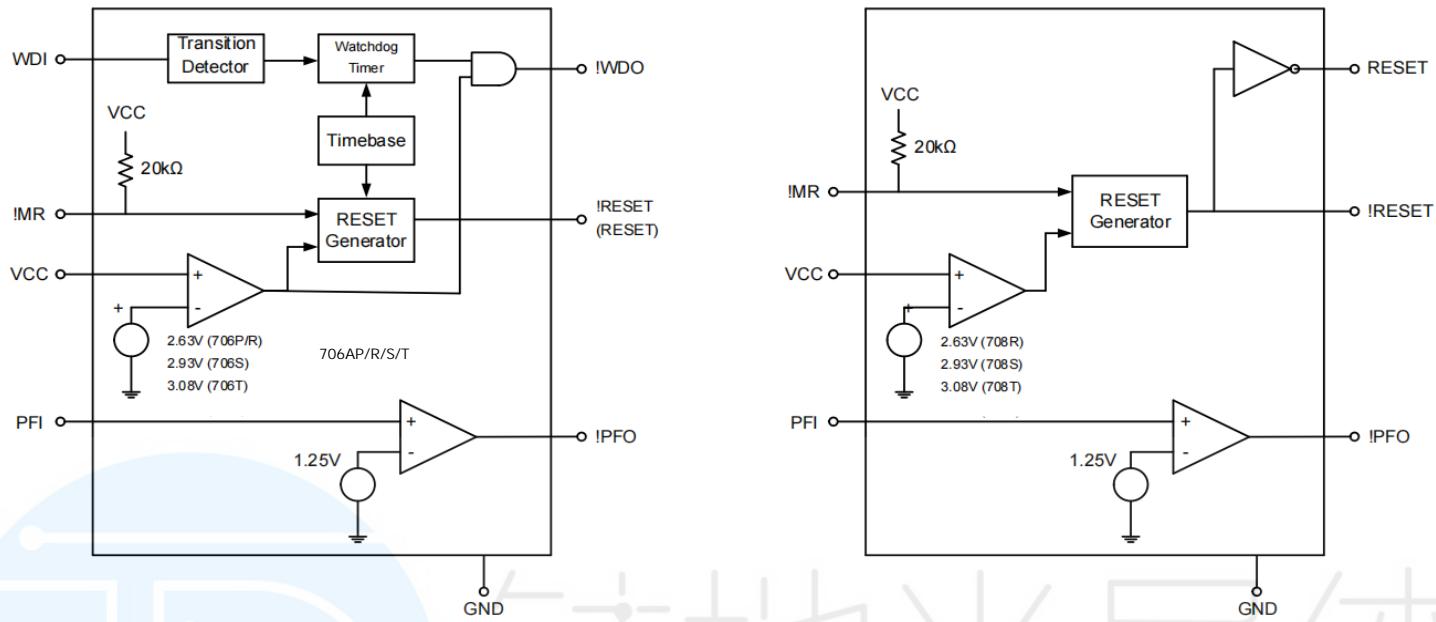


Figure 1: 706P/R/S/T, 708R/S/T, 706AP/AR/AS/AT functional diagram

Pin Function

| Pin | symbol | description |
|-----|--------|---|
| 1 | VCC | Source |
| 2 | GND | The earth |
| 3 | !MR | Manual reset input |
| 4 | PFI | 1.25V internal comparator reverse input |
| 5 | !PFO | 1.25V output of built-in comparator |
| 6 | WDI | Set this pin to high to disable the watchdog function. |
| 7 | !WDO | Watchdog output |
| 8 | RESET | Output a high-level reset signal, with RESET and !RESET inverted. |
| 9 | !RESET | Low level reset signal output |
| 10 | NC | Not have |

Table 1 Pin Function Descriptions for 706P/R/S/T/J, 708R/S/T/J, 705/6/7/8, and 813L



Pin Diagram

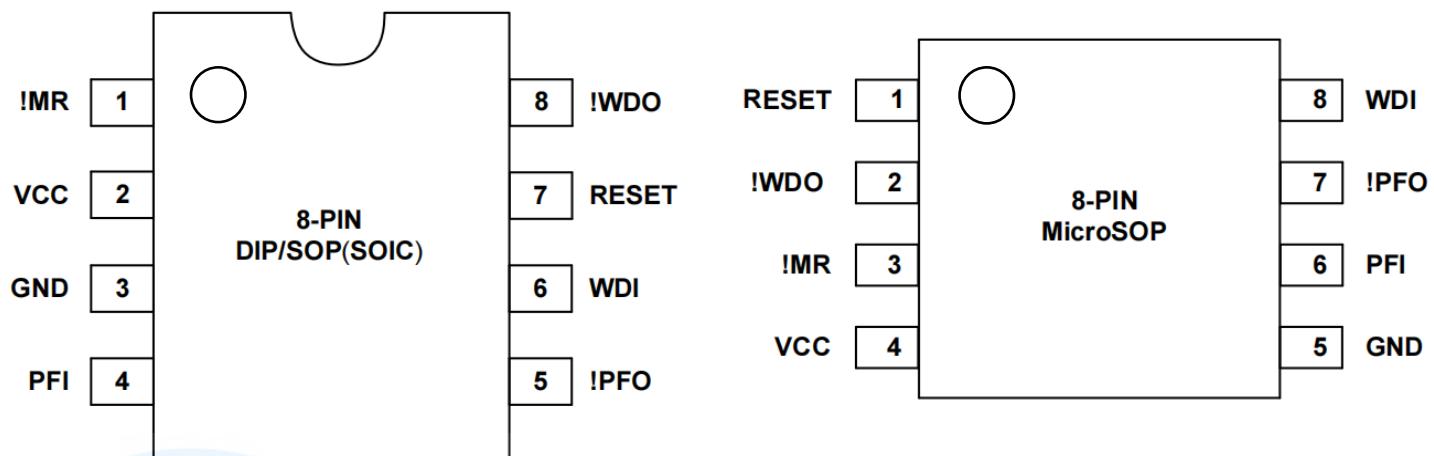


Figure 2: Pin Layout Diagram of 706P/AP

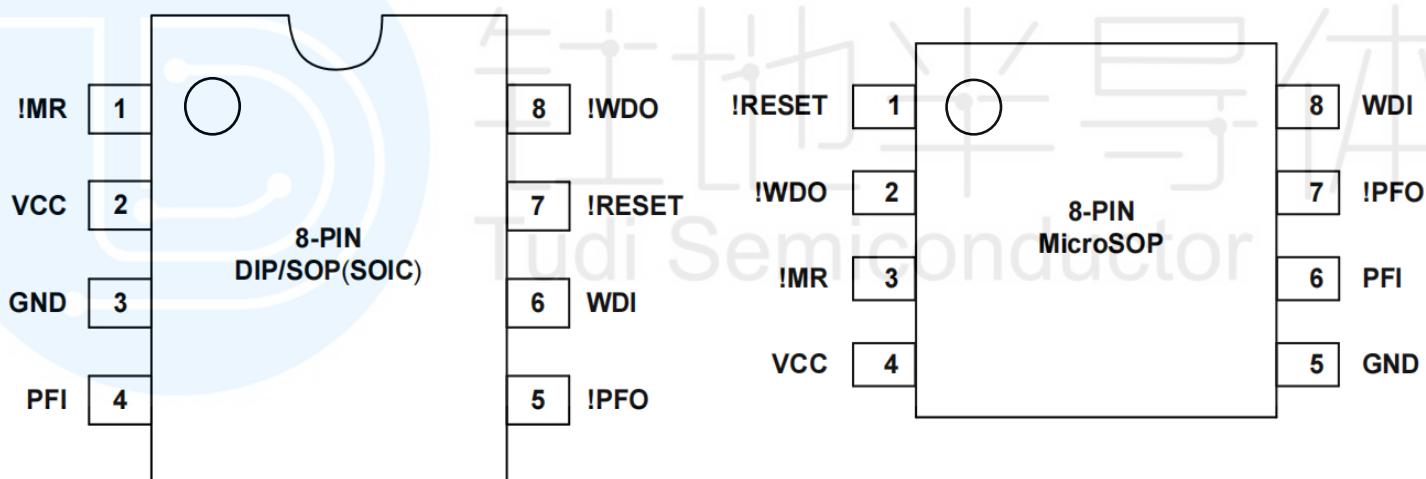


Figure 3: Pin Layout Diagram of 706R/S/T/AR/AS/AT

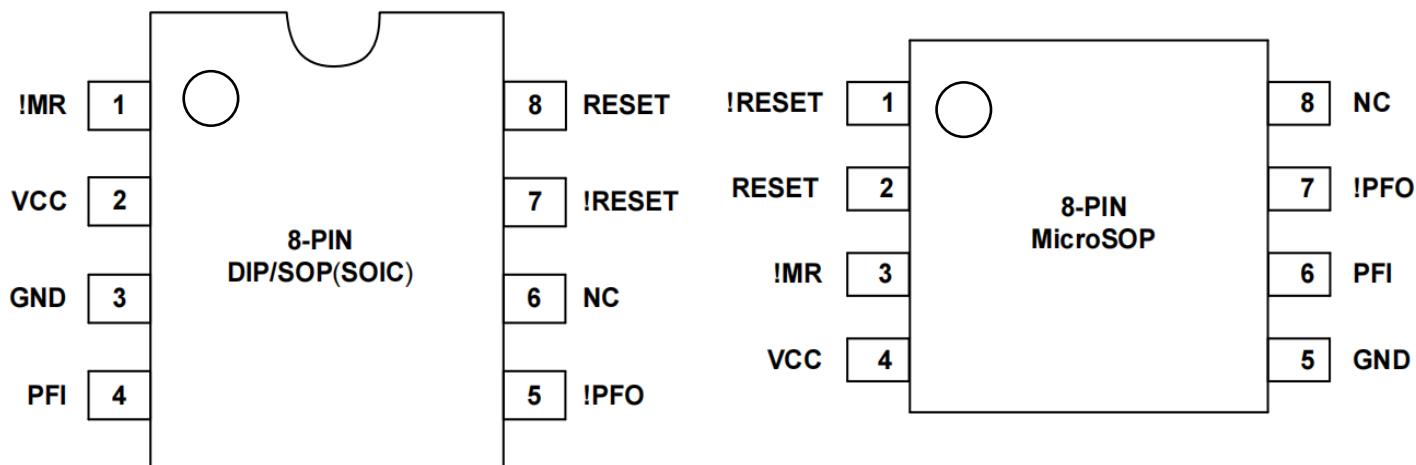


Figure 4: Pin Layout Diagram of 708R/S/T



Electrical Parameters

(70_P/R, 706AP/AR: VCC = 2.7V to 5.5V; 70_S, 706AS: VCC = 3.0V to 5.5V; 70_T, 706AT: VCC = 3.15V to 5.5V; TJ = TA = TMIN to TMAX, unless otherwise noted. Typical values are at TJ = TA = +25 °C.)

| symbol | description | Test condition | Parameter | | | Unit |
|--------|-----------------------------------|--|-------------|----------------------|-------------|------|
| | | | Least value | Representative value | Crest value | |
| tMD | !MR to RESET output delay | J-type device 3.6V < VCC < 4.5V | - | - | 750 | ns |
| | | P/R/S/T type devices VRST(MAX) < VCC < 3.6V | | | 250 | |
| | | 4.5V < VCC < 5.5V | - | - | 250 | |
| VIH | !MR Input threshold voltage | VRST(MAX) < VCC < 4.5V | 0.7VCC | - | - | V |
| VIL | | VRST(MAX) < VCC < 4.5V | - | - | 0.6 | |
| VIH | | 4.5V < VCC < 5.5V | 2.0 | - | - | |
| VIL | | 4.5V < VCC < 5.5V | - | - | 0.8 | |
| RP | !MR pull-up resistor | - | 10 | 20 | 40 | kΩ |
| VOH | Reset output voltage | ISOURCE = 800μA, 4.5V < VCC < 5.5V | VCC-1.5V | - | - | V |
| VOL | | ISINK = 3.2mA, 4.5V < VCC < 5.5V | - | - | 0.4 | |
| VOH | | ISOURCE = 500μA, VRST(MAX) < VCC < 4.5V | 0.8VCC | - | - | |
| VOL | | ISINK = 1.2mA, VRST(MAX) < VCC < 4.5V | - | - | 0.3 | |
| VOL | | 706*C, 708*C, SINK = 50μA, VCC = 1.1V | - | - | 0.3 | |
| VOL | | 706*E, 708*E, 705/6/7/8 ISINK = 100μA, VCC = 1.2V | - | - | 0.3 | |
| VOH | RESET output voltage, 706P device | ISOURCE = 800μA, 4.5V < VCC < 5.5V | VCC-1.5V | - | - | V |
| VOL | | ISINK = 3.2mA, 4.5V < VCC < 5.5V | - | - | 0.4 | |
| VOH | | ISOURCE = 500μA, VRST(MAX) < VCC < 3.6V | 0.8VCC | - | - | |
| VOL | | ISINK = 1.2mA, VRST(MAX) < VCC < 3.6V | - | - | 0.3 | |

Table 2 Electrical Characteristics of 706P/R/S/T, 708R/S/T, 705/6/7/8, and 813L



Electrical Parameters

(70_P/R, 706AP/AR: VCC = 2.7V to 5.5V; 70_S, 706AS: VCC = 3.0V to 5.5V; 70_T, 706AT: VCC = 3.15V to 5.5V; TJ = TA = TMIN to TMAX, unless otherwise noted. Typical values are at TJ = TA = +25 °C.)

| PARAMETER | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---------|-----------------------------|------------------|----------|------|-------|
| Supply Voltage Range | Vcc | | 70_C | 1.0 | 5.5 | V |
| | | | 70_E | 1.2 | 5.5 | |
| Supply Current | ISUPPLY | Vcc<3.6V | 706_C | 90 | 200 | μA |
| | | | 706_E | 90 | 300 | |
| | | | 708_C | 50 | 200 | |
| | | | 708_E | 50 | 300 | |
| | | Vcc<5.5V | 706_C | 135 | 350 | |
| | | | 706_E | 135 | 500 | |
| | | | 708_C | 65 | 350 | |
| | | | 708_E | 65 | 500 | |
| Reset Threshold (Vcc Falling) | VRST | 70_P/R,706AP/AR | 2.55 | 2.63 | 2.70 | V |
| | | 70_S,706AS | 2.85 | 2.93 | 3.00 | |
| | | 70_T,706AT | 3.00 | 3.08 | 3.15 | |
| Reset Threshold Hysteresis | VHYS | | | 20 | | mV |
| Reset Pulse Width | tRST | 70_P/R,706AP/AR Vcc=3.0V | 140 | 200 | 280 | ms |
| | | 70_S,706AS,Vcc=3.3V | 140 | 200 | 280 | |
| | | Vcc=5V | | 200 | | |
| RESET OUTPUT | | | | | | |
| Output-Voltage High (70_R/S/T) (706AR/AS/AT) | VoH | VRST(MAX)<Vcc<3.6V | ISOURCE=500μA | 0.8×Vcc | | V |
| | VoL | VRST(MAX)<Vcc<3.6V | ISINK = 1.2mA | 0.3 | | |
| | VOH | 4.5V<Vcc<5.5V | IRSOURCE = 800μA | Vcc- 1.5 | | |
| | VoL | 4.5V<Vcc<5.5V | ISINK=3.2mA | 0.4 | | |
| | VoL | 70_C Vcc=1.0V,ISINK=50μA | | 0.3 | | |
| | | 70_E:Vcc=1.2V,ISINK = 100μA | | 0.3 | | |

Table 3 Electrical characteristics of 706P/R/S/T, 708R/S/T, 706AP/AR/AS/AT (continued)



Electrical Parameters

(70_P/R, 706AP/AR: VCC = 2.7V to 5.5V; 70_S, 706AS: VCC = 3.0V to 5.5V; 70_T, 706AT: VCC = 3.15V to 5.5V; TJ = TA = TMIN to TMAX, unless otherwise noted. Typical values are at TJ = TA = +25 °C.)

| PARAMETER | SYMBOL | CONDITIONS | | MIN | TYP | MAX | UNITS | | |
|------------------------------------|--------|---|--------------------|---------|-------|-----|-------|--|--|
| WATCHDOG OUTPUT | | | | | | | | | |
| WDO Output Voltage (706_,706A_) | VOH | VRST(MAX)<Vcc<3.6V | ISOURCE=500μA | 0.8×Vcc | | V | | | |
| | Vol | VRST(MAX)<Vcc<3.6V | ISINK=500μA | 0.3 | | | | | |
| | VoH | 4.5V<Vcc<5.5V | ISOURCE=800μA | Vcc-1.5 | | | | | |
| | Vol | 4.5V<Vcc<5.5V | ISINK =1.2mA | 0.4 | | | | | |
| MANUAL RESET INPUT | | | | | | | | | |
| MR Pullup Current | | MR=0 | VRST(MAX)<Vcc<3.6V | 25 | 70 | 250 | μA | | |
| | | | 4.5V<Vcc<5.5V | 100 | 250 | 600 | | | |
| MR Pulse Width | tMR | VRST(MAX)<Vcc<3.6V | | 500 | | | ns | | |
| | | 4.5V<Vcc<5.5V | | 150 | | | | | |
| MR Input Threshold | | VIL | VRST(MAX)<Vcc<3.6V | 0.6 | | | V | | |
| | | VIH | VRST(MAX)<Vcc<3.6V | 0.7×Vcc | | | | | |
| | | VIL | 4.5V<Vcc<5.5V | 0.8 | | | | | |
| | | VIH | 4.5V<Vcc<5.5V | 2.0 | | | | | |
| MR to Reset Output Delay | tMD | VRST(MAX)<Vcc<3.6V | | 750 | | | ns | | |
| | | 4.5V<Vcc<5.5V | | 250 | | | | | |
| POWER-FAILURE COMPARATOR | | | | | | | | | |
| PFI Input Threshold | | (70_P/R,706APAR)PFI falling Vcc=3.0V | | 1.2 | 1.25 | 1.3 | V | | |
| | | (70_S/T,706AS/AT)PFI falling, Vcc=3.3V | | 1.2 | 1.25 | 1.3 | | | |
| PFI Input Current | | | | -25 | +0.01 | +25 | nA | | |
| PFO Output Voltage | VoH | VRST(MAX)<Vcc<3.6V | ISOURCE=500μA | 0.8×Vcc | | | V | | |
| | Vol | VRST(MAX)<Vcc<3.6V | ISINK=1.2mA | 0.3 | | | | | |
| | VoH | 4.5V<Vcc<5.5V | ISOURCE=800μA | Vcc-1.5 | | | | | |
| | Vol | 4.5V<Vcc<5.5V | ISINK =3.2mA | 0.4 | | | | | |

Table 4 Electrical Characteristics of 706P/R/S/T, 708R/S/T,706AP/AR/AS/AT (continued)



Electrical Parameters

(70_P/R, 706AP/AR: VCC = 2.7V to 5.5V; 70_S, 706AS: VCC = 3.0V to 5.5V; 70_T, 706AT: VCC = 3.15V to 5.5V; TJ = TA = TMIN to TMAX, unless otherwise noted. Typical values are at TJ = TA = +25 °C.)

| PARAMETER | SYMBOL | CONDITIONS | | MIN | TYP | MAX | UNITS | |
|---|--------|--------------------------|-------------------|------|---------|------|-------|----|
| Output-Voltage High (706P)(706AP) | VOH | VRST(MAX)<Vcc<3.6V | ISOURCE=215μA | | Vcc-0.6 | | V | |
| | VoL | VRST(MAX)<Vcc<3.6V | ISINK = 1.2mA | | 0.3 | | | |
| | VOH | 4.5<Vcc<5.5V | ISOURCE=800μA | | Vcc-1.5 | | | |
| | VoL | 4.5V<Vcc<5.5V | ISINK = 3.2mA | | 0.4 | | | |
| Output-Voltage High (708_) | VoH | VRST(MAX)<Vcc<3.6V | ISOURCE=500μA | | 0.8×Vcc | | V | |
| | VoL | VRST(MAX)<Vcc<3.6V | ISINK=500μA | | 0.3 | | | |
| | VOH | 4.5V<Vcc<5.5V | ISOURCE=800μA | | Vcc-1.5 | | | |
| | VoL | 4.5V<Vcc<5.5V | ISINK=1.2mA | | 0.4 | | | |
| WATCHDOG | | INPUT | | | | | | |
| Watchdog Timeout Period | twD | 706P/R,706AP/AR,VCC=3.0V | | | 1.00 | 1.6 | 2.25 | S |
| | | 706S/T,706AS/AT,VCC=3.3V | | | 1.00 | 1.6 | 2.25 | |
| WDI Pulse Width (706_,706A_) | twP | VIL=0.4V | VRST(MAX)<Vcc | | 100 | | | ns |
| | | VIH=0.8V×Vcc | 4.5V<Vcc< 5.5V | | 50 | | | |
| Watchdog Input Threshold (706_,706A_) | VIL | VRST(MAX)<Vcc<3.6V | | | 0.6 | | | V |
| | VIH | VRST(MAX)<Vcc<3.6V | | | 0.7×Vcc | | | |
| | VIL | Vcc=5.0V | | | 0.8 | | | |
| | VIH | VCC=5.0V | | | 3.5 | | | |
| WDI Input Current | | WDI=OV or Vcc | 706_ | -1.0 | +0.02 | +1.0 | μA | |
| | | | 706A_ | -5 | | +5 | | |

Table 5 Electrical Characteristics of 706P/R/S/T, 708R/S/T, 706AP/AR/AS/AT (continued)

Typical Performance Parameters

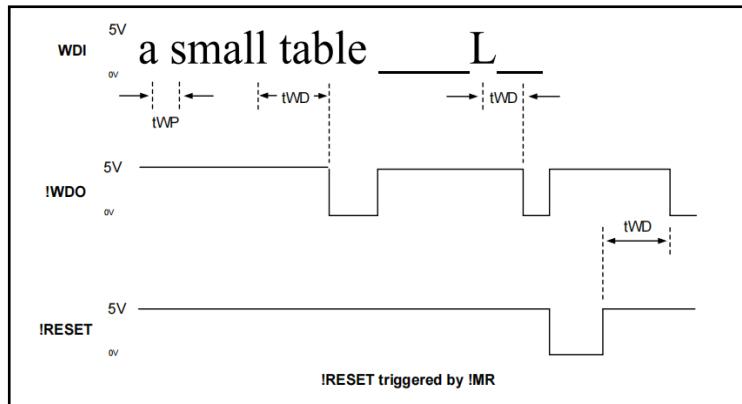


Figure 5 : Watchdog Timing Diagram

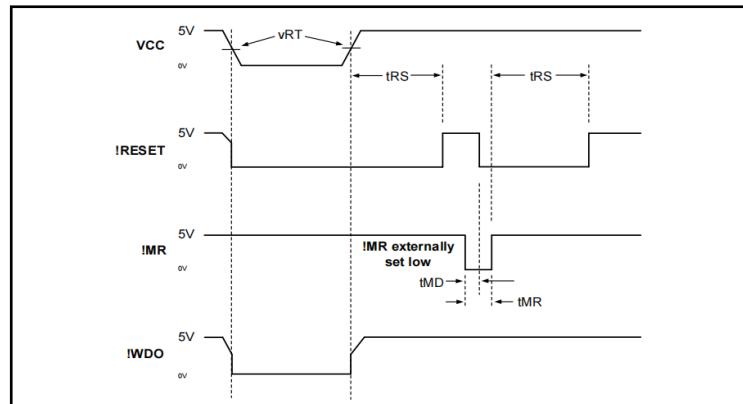


Figure 6: Reset Signal Timing Diagrams for 706P/R/S/T, 708R/S/T, 705/6/7/8, and 813L



Key Performance Parameters (continued)

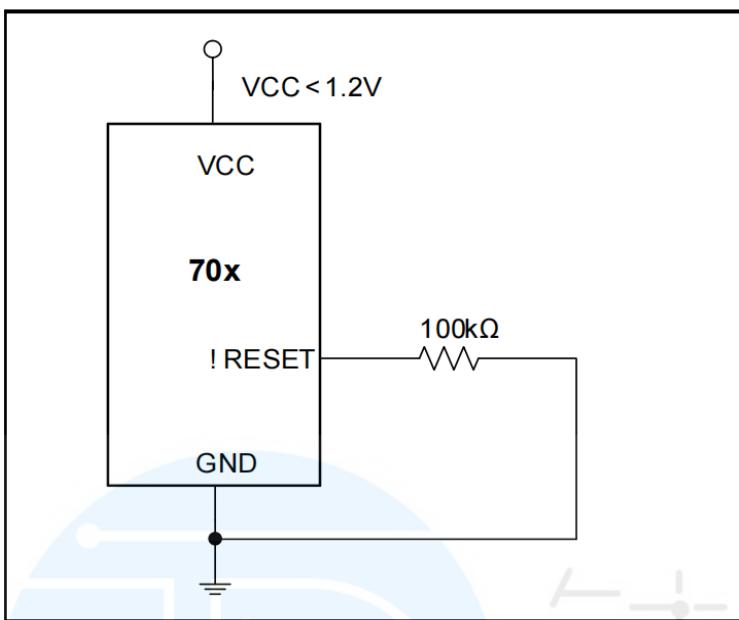


Figure 7 Ensure the RESET Circuit Is Functioning Properly

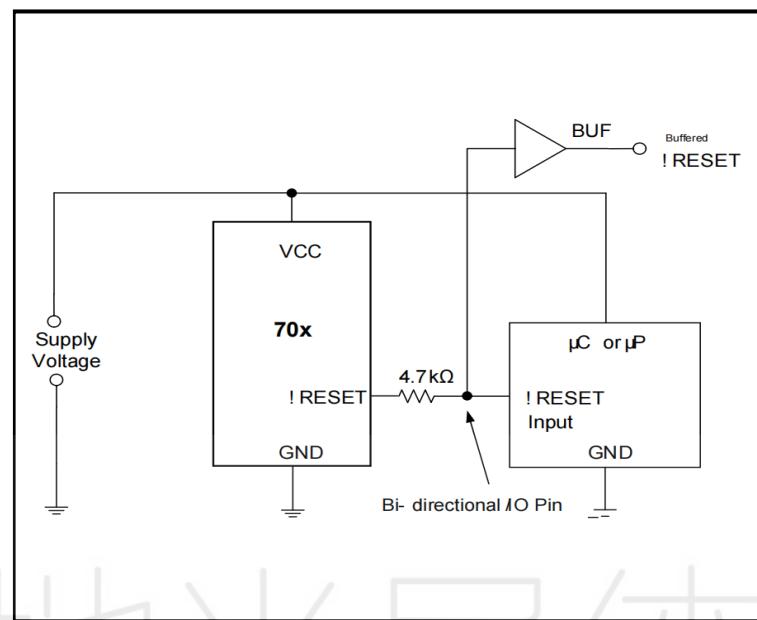


Figure 8 Schematic Diagram of a Bidirectional Reset Port Connection

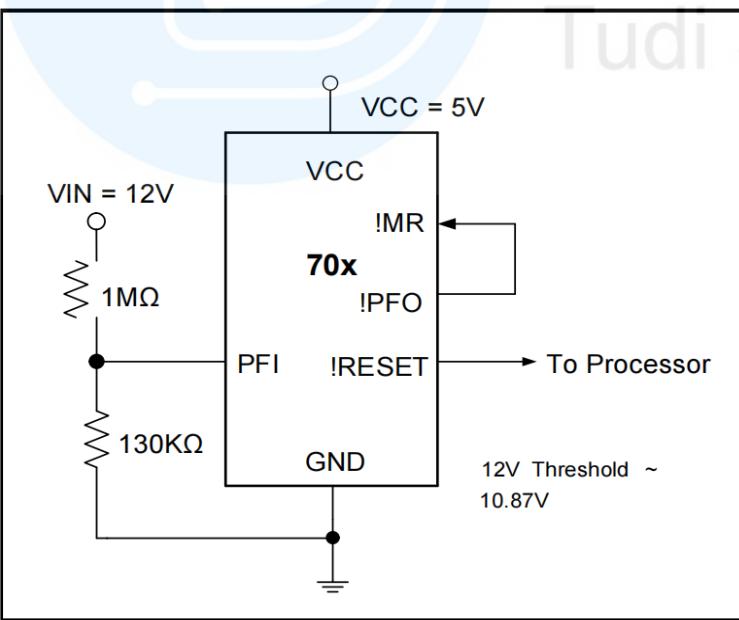


Figure 9 Diagram of Voltage Monitoring Outside VCC

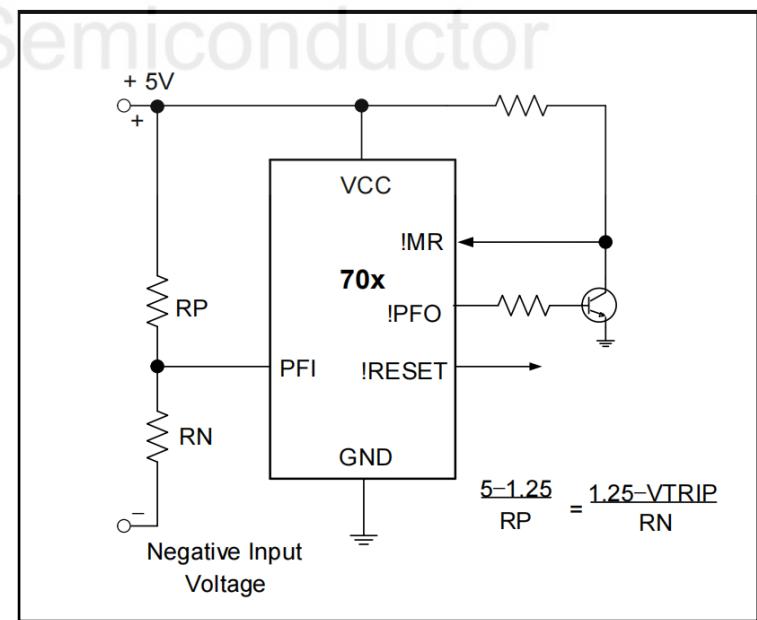
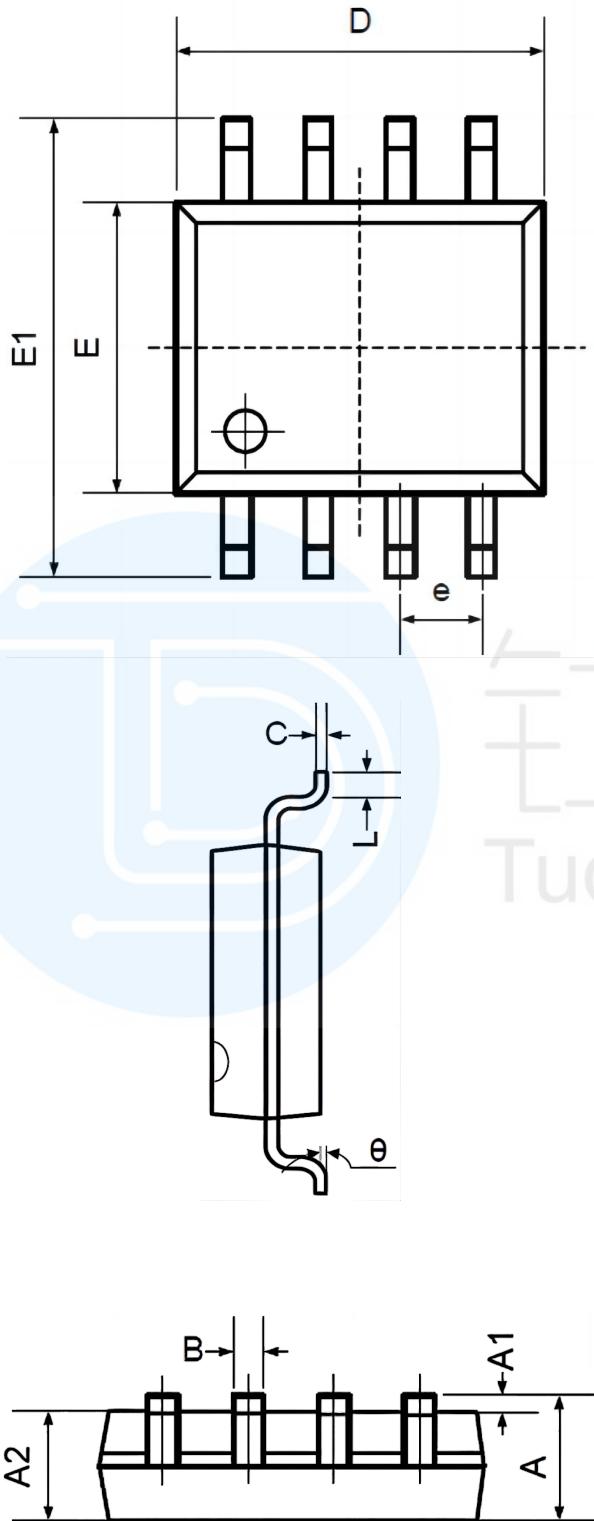


Figure 10 Negative Voltage Monitoring Circuit



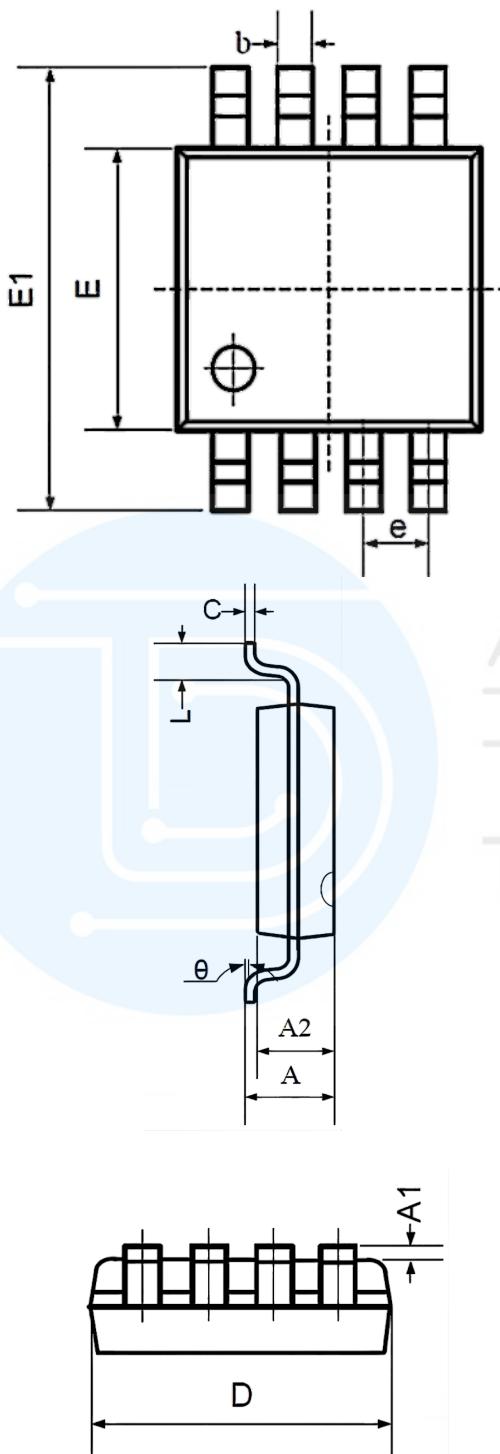
Package SOP8



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 1.350 | 1.750 | 0.053 | 0.069 |
| A1 | 0.100 | 0.250 | 0.004 | 0.010 |
| A2 | 1.350 | 1.550 | 0.053 | 0.061 |
| B | 0.330 | 0.510 | 0.013 | 0.020 |
| C | 0.190 | 0.250 | 0.007 | 0.010 |
| D | 4.780 | 5.000 | 0.188 | 0.197 |
| E | 3.800 | 4.000 | 0.150 | 0.157 |
| E1 | 5.800 | 6.300 | 0.228 | 0.248 |
| e | 1.270TYP | | 0.050TYP | |
| L | 0.400 | 1.270 | 0.016 | 0.050 |
| θ | 0° | 8° | 0° | 8° |



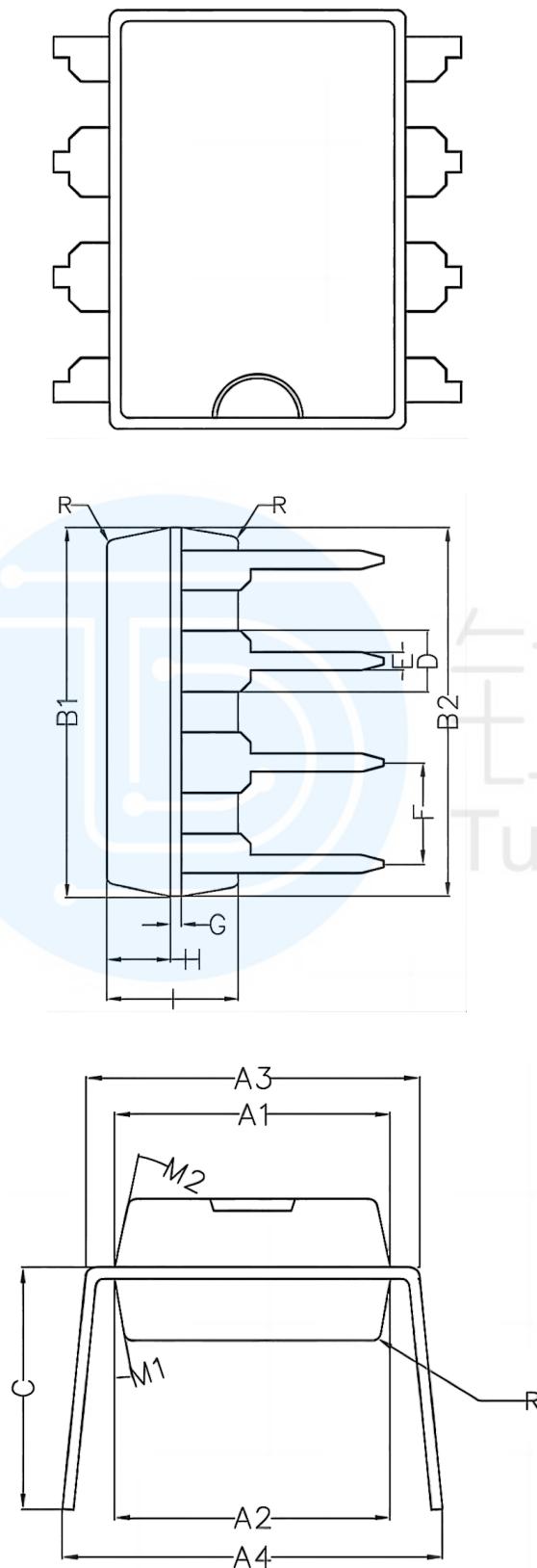
Package MSOP8



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|----------|---------------------------|-----------|----------------------|-----------|
| | Min | Max | Min | Max |
| A | 0.800 | 1.200 | 0.031 | 0.047 |
| A1 | 0.000 | 0.200 | 0.000 | 0.008 |
| A2 | 0.760 | 0.970 | 0.030 | 0.038 |
| b | 0.30 TYP | | 0.012 TYP | |
| C | 0.15 TYP | | 0.006 TYP | |
| D | 2.900 | 3.100 | 0.114 | 0.122 |
| e | 0.65 TYP | | 0.026 TYP | |
| E | 2.900 | 3.100 | 0.114 | 0.122 |
| E1 | 4.700 | 5.100 | 0.185 | 0.201 |
| L | 0.410 | 0.650 | 0.016 | 0.026 |
| θ | 0° | 6° | 0° | 6° |



Package DIP8

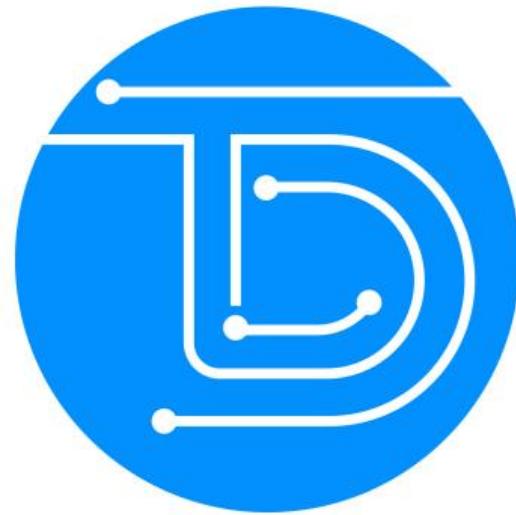


| Symbol | Min | Non | Max |
|--------|------|------|------|
| A1 | 6.28 | 6.33 | 6.38 |
| A2 | 6.33 | 6.38 | 6.43 |
| A3 | 7.52 | 7.62 | 7.72 |
| A4 | 7.80 | 8.40 | 9.00 |
| B1 | 9.15 | 9.20 | 9.25 |
| B2 | 9.20 | 9.25 | 9.30 |
| C | | 5.57 | |
| D | | 1.52 | |
| E | 0.43 | 0.45 | 0.47 |
| F | | 2.54 | |
| G | | 0.25 | |
| H | 1.54 | 1.59 | 1.64 |
| 工 | 3.22 | 3.27 | 3.32 |
| R | | 0.20 | |
| M1 | 9° | 10° | 11° |
| M2 | 11° | 12° | 13° |



Order information

| Order Number | Package | Package Quantity | Marking On The park | Temperature | Operating Voltage |
|-----------------|---------|-----------------------|---------------------|----------------|-------------------|
| MAX706PCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706PCPA | 0°C to 70°C | 2.63V |
| MAX706PCSA-TUDI | SOP8 | Tape,Reel,2500 | MAX706PCSA | | |
| MAX706PCUA-TUDI | MSOP8 | Tape,Reel,2500 | 706PCUA | | |
| MAX706PEPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706PEPA | - 40°C to 85°C | |
| MAX706PESA-TUDI | SOP8 | Tape,Reel,2500 | MAX706PESA | | |
| MAX706PEUA-TUDI | MSOP8 | Tape,Reel,2500 | 706PEUA | | |
| MAX706RCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706RCPA | | |



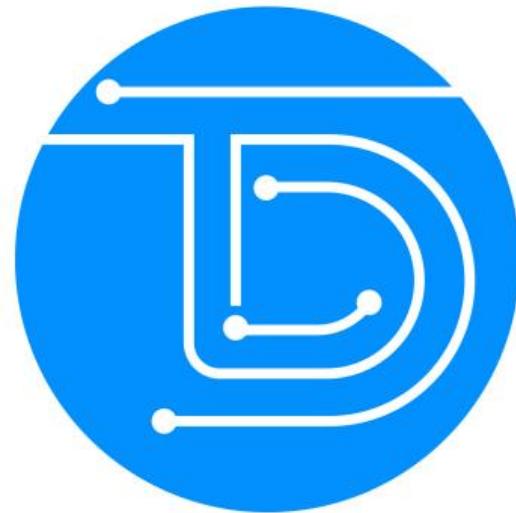
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| | | | | | |
|-----------------|-------|-----------------------|------------|----------------|-------|
| MAX706SESA-TUDI | SOP8 | Tape,Reel,2500 | MAX706SESA | - 40°C to 85°C | |
| MAX706SEUA-TUDI | MSOP8 | Tape,Reel,2500 | 706SEUA | | |
| MAX706TCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706TCPA | | |
| MAX706TCSA-TUDI | SOP8 | Tape,Reel,2500 | MAX706TCSA | 0°C to 70°C | 3.08V |
| MAX706TCUA-TUDI | MSOP8 | Tape,Reel,2500 | 706TCUA | | |
| MAX706TEPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706TEPA | | |
| MAX706TESA-TUDI | SOP8 | Tape,Reel,2500 | MAX706TESA | - 40°C to 85°C | |
| MAX706TEUA-TUDI | MSOP8 | Tape,Reel,2500 | 706TEUA | | |



Order information

| Order Number | Package | Package Quantity | Marking On The park | Temperature | Operating Voltage |
|------------------|---------|-----------------------|---------------------|----------------|-------------------|
| MAX706APCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706APCPA | 0°C to 70°C | 2.63V |
| MAX706APCSA-TUDI | SOP8 | Tape,Reel,2500 | MAX706APCSA | | |
| MAX706APCUA-TUDI | MSOP8 | Tape,Reel,2500 | 706APCUA | | |
| MAX706APEPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706APEPA | - 40°C to 85°C | 3.08V |
| MAX706APESA-TUDI | SOP8 | Tape,Reel,2500 | MAX706APESA | | |
| MAX706APEUA-TUDI | MSOP8 | Tape,Reel,2500 | 706APEUA | | |
| MAX706ARCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706ARCPA | | |



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| Order Number | Package | Package Quantity | Marking On The park | Temperature | Operating Voltage |
|------------------|---------|-----------------------|---------------------|----------------|-------------------|
| MAX706ASESA-TUDI | SOP8 | Tape,Reel,2500 | MAX706ASESA | - 40°C to 85°C | 3.08V |
| MAX706ASEUA-TUDI | MSOP8 | Tape,Reel,2500 | 706ASEUA | | |
| MAX706ATCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706ATCPA | | |
| MAX706ATCSA-TUDI | SOP8 | Tape,Reel,2500 | MAX706ATCSA | 0°C to 70°C | 3.08V |
| MAX706ATCUA-TUDI | MSOP8 | Tape,Reel,2500 | 706ATCUA | | |
| MAX706ATEPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX706ATEPA | | |
| MAX706ATESA-TUDI | SOP8 | Tape,Reel,2500 | MAX706ATESA | - 40°C to 85°C | 3.08V |
| MAX706ATEUA-TUDI | MSOP8 | Tape,Reel,2500 | 706ATEUA | | |



Order information

| Order Number | Package | Package Quantity | Marking On The park | Temperature | Operating Voltage |
|-----------------|---------|-----------------------|---------------------|----------------|-------------------|
| MAX708RCPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX708RCPA | 0°C to 70°C | 2.63V |
| MAX708RCSA-TUDI | SOP8 | Tape,Reel,2500 | MAX708RCSA | | |
| MAX708RCUA-TUDI | MSOP8 | Tape,Reel,2500 | 708RCUA | | |
| MAX708REPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX708REPA | - 40°C to 85°C | 3.08V |
| MAX708RESA-TUDI | SOP8 | Tape,Reel,2500 | MAX708RESA | | |
| MAX708REUA-TUDI | MSOP8 | Tape,Reel,2500 | 708REUA | | |



钛地半导体
Tudi Semiconductor

| Order Number | Package | Package Quantity | Marking On The park | Temperature | Operating Voltage |
|-----------------|---------|-----------------------|---------------------|----------------|-------------------|
| MAX708TEPA-TUDI | DIP8 | Tube,50,A box of 2000 | MAX708TEPA | - 40°C to 85°C | 3.08V |
| MAX708TESA-TUDI | SOP8 | Tape,Reel,2500 | MAX708TESA | | |
| MAX708TEUA-TUDI | MSOP8 | Tape,Reel,2500 | 708TEUA | | |



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