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AMSC N/A 5962-V029-11

1. SCOPE

- 1.1 <u>Scope</u>. This drawing documents the general requirements of a high performance CMOS, ± 5 V/ ± 5 V, ± 6 Q, single SPDT switch microcircuit, with an operating temperature range of ± 40 °C to ± 125 °C.
- 1.2 <u>Vendor Item Drawing Administrative Control Number</u>. The manufacturer,s PIN is the item of identification. The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation:

 V62/11608
 01
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 Drawing number
 Device type (See 1.2.1)
 Case outline (See 1.2.2)
 Lead finish (See 1.2.3)

1.2.1 Device type(s).

Device typeGenericCircuit function01ADG619-EPCMOS, \pm 5 V/ +5 V, 4 Ω, single SPDT switch

1.2.2 <u>Case outline(s)</u>. The case outlines are as specified herein.

 Outline letter
 Number of pins
 JEDEC PUB 95
 Package style

 X
 8
 JEDEC MO-178
 Small outline Package

1.2.3 <u>Lead finishes</u>. The lead finishes are as specified below or other lead finishes as provided by the device manufacturer:

Finish designator

A Hot solder dip
B Tin-lead plate
C Gold plate
D Palladium
E Gold flash palladium
Z Other

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. |
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1.3 Absolute maximum ratings. 1/

Voltage referenced:

| V _{DD} to V _{SS} | 13.0 V |
|--|---|
| V _{DD} to GND | 0.3 V to +6.5 V |
| V _{SS} to GND | +0.3 V to -6.5 V |
| Analog input <u>2</u> / | $V_{SS} - 0.3 \text{ V to } V_{DD} + 0.3 \text{ V}$ |
| Digital input 2/ | |
| Peak current, S or D | |
| Continuous current, S or D | |
| Ambient operating temperature range | 55°C to +125°C |
| Storage temperature range | |
| Maximum junction temperature (T _J) | |
| Thermal impedance: | |
| θ. _{IA} | 229°C /W |
| θ.ic | 91.99°C /W |
| Lead soldering: | |
| Reflow, peak temperature | 260(+0/-5)°C |
| Time at peak temperature | |

2. APPLICABLE DOCUMENTS

JEDEC PUB 95 – Registered and Standard Outlines for Semiconductor Devices

(Applications for copies should be addressed to the Electronic Industries Alliance, 3103 North 10th St., Suite 240-S, Arlington, VA 22201-2107 or online at http://www.jedec.org)

3. REQUIREMENTS

- 3.1 <u>Marking</u>. Parts shall be permanently and legibly marked with the manufacturer's part number as shown in 6.3 herein and as follows:
 - A. Manufacturer's name, CAGE code, or logo
 - B. Pin 1 identifier
 - C. ESDS identification (optional)
- 3.2 <u>Unit container</u>. The unit container shall be marked with the manufacturer's part number and with items A and C (if applicable) above.
- 3.3 <u>Electrical characteristics</u>. The maximum and recommended operating conditions and electrical performance characteristics are as specified in 1.3, 1.4, and table I herein.

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Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute maximum rated conditions for extended periods may affect device reliability.

^{2/} Overvoltage at IN, S or D are clamped by internal diodes. Current should be limited to the maximum ratings given.

- 3.4 <u>Design, construction, and physical dimension</u>. The design, construction, and physical dimensions are as specified herein.
- 3.5 Diagrams.
- 3.5.1 Case outline. The case outline shall be as shown in 1.2.2 and figure 1.
- 3.5.2 Terminal connections. The terminal connections shall be as shown in figure 2.
- 3.5.3 Functional block diagram. The functional block diagram shall be as shown in figure 3.
- 3.5.4 <u>Truth table</u>. The truth table shall be as shown in figure 4.
- 3.5.5 On Resistance. The On resistance shall be as shown in figure 5.
- 3.5.6 Off Leakage. The Off leakage shall be as shown in figure 6.
- 3.5.7 On Leakage . The On leakage shall be as shown in figure 7.
- 3.5.8 <u>Switching times</u>. The switching times shall be as shown in figure 8.
- 3.5.9 Break before making time delay. The break before making time delay shall be as shown in figure 9.
- 3.5.10 Charge injection. The charge injection shall be as shown in figure 10.
- 3.5.11 Off isolation. The Off isolation shall be as shown in figure 11.
- 3.5.12 Channel to channel crosstalk. The channel to channel crosstalk shall be as shown in figure 12.
- 3.5.13 Bandwidth. The bandwidth shall be as shown in figure 13.

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. |
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TABLE I. <u>Electrical performance characteristics</u>. <u>1</u>/

| Test | Symbol | Test conditions | | | Limits | | Unit |
|---|------------------------------------|---|------------------|--------|------------------------|--|------|
| | | <u>2</u> / | T _A = | = 25°C | -55°C ≤ T _A | √≤ +125°C | |
| | | unless otherwise specified | Min | Max | Min | Max | |
| | | DUAL SUPPLY | | | | | |
| Analog switch | | | | | | | |
| Analog signal range | | $V_{DD} = +4.5 \text{ V}, V_{SS} = -4.5 \text{ V}$ | | | V_{SS} | V_{DD} | V |
| On resistance | Ron | $V_S = \pm 4.5 \text{ V}, I_{DS} = -10 \text{ mA}$ | | 6.5 | | 10 | Ω |
| | | See figure 5 | | | | | |
| R _{ON} Match between channels | ΔR_{ON} | $V_S = \pm 4.5 \text{ V}, I_{DS} = -10 \text{ mA}$ | | 1.1 | | 1.45 | |
| On resistance flatness | R _{FLAT (ON))} | $V_S = \pm 3.3 \text{ V}, I_{DS} = -10 \text{ mA}$ | | 1.35 | | 1.6 | |
| Leakage currents $(V_{DD} = +5.$ | 5 V, V _{SS} = -{ | 5.5 V) | | | | | |
| Source off leakage, | I _S (Off) | $V_S = \pm 4.5 \text{ V}, V_D = \pm 4.5 \text{ V},$ | | ±0.25 | | ±3 | nA |
| - | | See figure 6 | | | | | |
| Channel On leakage, | I _D , I _S | $V_S = V_D = \pm 4.5 V$, | | ±0.25 | | ±25 | |
| | (On) | See figure 7 | | | | | |
| Digital inputs | | | | | | | |
| Input high voltage | V_{INH} | | | | 2.4 | | V |
| Input low voltage | V_{INL} | | | | | 0.8 | |
| Input current, | I _{NL} or I _{NH} | V _{IN} = V _{INL} or V _{INH} | 0.0 | 5 TYP | | ±0.1 | μA |
| Digital input capacitance | C _{IN} | | 2 | TYP | | | pF |
| Dynamic characteristic <u>3</u> / | | | | | | | |
| ton | | $R_L = 300 \Omega, C_L = 35 pF,$ | | 220 | | 390 | ns |
| t _{OFF} | | V _S = 3.3 V, See figure 8 | | 75 | | 135 | |
| Break before make time delay | t _{BBM} | $R_L = 300 \Omega, C_L = 35 pF,$ | 70 | TYP | 10 | | |
| • | | $V_{S1} = V_{S2} = 3.3 \text{ V}$, See figure 9 | | | | | |
| Charge injection | | $V_S = 0 \text{ V}, R_S = 0 \Omega, C_L = 1 \text{ nF}, \text{ See figure } 10$ | 6 | TYP | | | рС |
| Off isolation | | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, See figure 11 | - 67 | 7 TYP | | | dB |
| Channel to channel crosstalk | | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, See figure 12 | - 67 | 7 TYP | | | |
| Bandwidth -3 dB | | $R_L = 50 \Omega$, $C_L = 5 pF$, See figure 13 | 190 |) TYP | | | MHz |
| C _S (Off) | | f = 1 MHz | 25 | TYP | | | pF |
| C _D , C _S (On) | | | 95 | TYP | | | • |
| Power requirements (V _{DD} = + | 5.5 V, V _{SS} = | -5.5 V) | | | | <u>. </u> | |
| I _{DD} | | Digital inputs = 0 V or 5.5 V | 0.00 | 1 TYP | | 1.0 | μA |
| I _{SS} | | | _ | 1 TYP | | 1.0 | μA |

See footnotes at end of table.

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. |
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| COLUMBUS, OHIO | A | 16236 | V62/11608 |
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TABLE I. <u>Electrical performance characteristics</u> Continued. <u>1</u>/

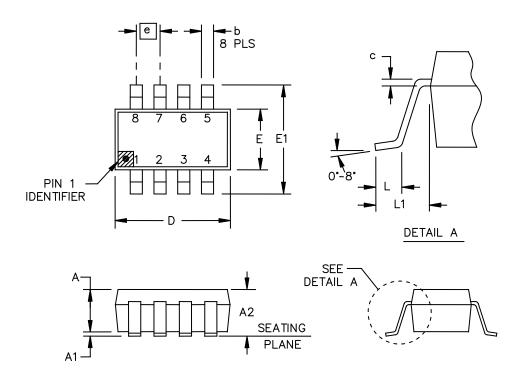
| Test | Symbol | Test conditions | | | Limits | | Unit |
|---|------------------------------------|---|------------------|--------|------------------------|----------|------|
| | | <u>2</u> / | T _A = | = 25°C | -55°C ≤ T _# | √≤+125°C | |
| | | unless otherwise specified | Min | Max | Min | Max | |
| | | SINGLE SUPPLY | | | | | |
| Analog switch | | | | | | | |
| Analog signal range | | $V_{DD} = +4.5 \text{ V}, V_{SS} = -0 \text{ V}$ | | | 0 | V_{DD} | V |
| On resistance | Ron | $V_S = 0 \text{ V to } 4.5 \text{ V}, I_{DS} = -10 \text{ mA}$ | | 10 | | 14 | Ω |
| | | See figure 5 | | | | | |
| R _{ON} Match between channels | ΔR_{ON} | $V_S = 0 \text{ V to } 4.5 \text{ V}, I_{DS} = -10 \text{ mA}$ | | 1.1 | | 1.4 | |
| On resistance flatness | R _{FLAT (ON))} | $V_{\rm S}$ =1.5 V to 3.3 V, $I_{\rm DS}$ = -10 mA | 0.5 | TYP | | 1.4 | |
| Leakage currents $(V_{DD} = +5.$ | 5 V) | | | | | | |
| Source off leakage, | I _S (Off) | $V_S = 1 \text{ V}/4.5 \text{ V}, V_D = 4.5 \text{ V}/1 \text{ V},$ | | ±0.25 | | ±3 | nΑ |
| | | See figure 6 | | | | | |
| Channel On leakage, | I_D , I_S | $V_{S} = V_{D} = \pm 4.5 V,$ | | ±0.25 | | ±25 | |
| | (On) | See figure 7 | | | | | |
| Digital inputs | | | | | | | |
| Input high voltage | V _{INH} | | | | 2.4 | | V |
| Input low voltage | V_{INL} | | | | | 0.8 | |
| Input current, | I _{NL} or I _{NH} | $V_{IN} = V_{INL}$ or V_{INH} | 0.0 | 5 TYP | | ±0.1 | μΑ |
| Digital input capacitance | C_{IN} | | 2 | TYP | | | pF |
| Dynamic characteristic <u>3</u> / | | | | | | | |
| ton | | $R_L = 300 \Omega, C_L = 35 pF,$ | | 120 | | 215 | ns |
| toff | | V_S = 3.3 V, See figure 8 | | 75 | | 105 | |
| Break before make time delay | t _{BBM} | $R_L = 300 \Omega, C_L = 35 pF,$ | 40 | TYP | 10 | | |
| | | $V_{S1} = V_{S2} = 3.3 \text{ V}$, See figure 9 | | | | | |
| Charge injection | | V_S -= 0 V, R_S = 0 Ω , C_L = 1 nF, See figure 10 | 110 |) TYP | | | рС |
| Off isolation | | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, See figure 11 | - 67 | 7 TYP | | | dB |
| Channel to channel crosstalk | | $R_L = 50 \Omega$, $C_L = 5 pF$, $f = 1 MHz$, See figure 12 | - 67 | 7 TYP | | | |
| Bandwidth -3 dB | | $R_L = 50 \Omega$, $C_L = 5 pF$, See figure 13 | 190 |) TYP | | | MHz |
| C _S (Off) | _ | f = 1 MHz | 25 | TYP | _ | | pF |
| C _D , C _S (On) | | | 95 | TYP | | | • |
| Power requirements (V _{DD} = + | 5.5 V) | | • | | • | | |
| I _{DD} | | Digital inputs = 0 V or 5.5 V | 0.00 | 1 TYP | | 1.0 | μA |

Testing and other quality control techniques are used to the extent deemed necessary to assure product performance over the specified temperature range. Product may not necessarily be tested across the full temperature range and all parameters may not necessarily be tested. In the absence of specific parametric testing, product performance is assured by characterization and/or design.

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 $^{2/}V_{DD} = 5 \text{ V} \pm 10\%$, $V_{SS} = 0 \text{ V}$, GND = 0 V, $-55^{\circ}C \leq T_{A} \leq 125^{\circ}C$, unless otherwise noted.

^{3/} Guaranteed by design, not subject to production test.



| Dimensions | | | | | | | | | |
|------------|-------------|------|--------|----------|-------|--|--|--|--|
| Symbol | Millimeters | | Symbol | Millim | eters | | | | |
| | Min | Max | | Min | Max | | | | |
| Α | 0.90 | 1.30 | Е | 1.50 | 1.70 | | | | |
| A1 | 0.05 | 0.15 | E1 | 2.60 | 3.00 | | | | |
| A2 | 0.95 | 1.45 | е | 0.65 BSC | | | | | |
| b | 0.22 | 0.38 | L | 0.30 | 0.60 | | | | |
| С | 0.08 | 0.22 | L1 | 0.60 BSC | | | | | |
| D | 2.80 | 3.00 | | | | | | | |

FIGURE 1. Case outline.

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. V62/11608 |
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Case outline X

| Pin No. | Mnemonic | Description |
|---------|-----------------|---|
| 1 | D | Drain terminal. Can be an input or output |
| 2 | S1 | Source terminal. Can be an input or output |
| 3 | GND | Ground (0 V) reference. |
| 4 | V_{DD} | Most positive power supply |
| 5 | NC | No connect. Not internal connected. |
| 6 | IN | Logic control input |
| 7 | V _{SS} | Most negative power supply. This pin is only used in dual supply applications and should be tied to ground in single supply applications. |
| 8 | S2 | Source terminal. can be an input or output |

FIGURE 2. <u>Terminal connections</u>.

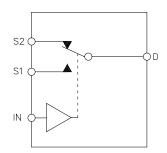


FIGURE 3. Functional block diagram.

| IN | Switch S1 | Switch S2 |
|----|-----------|-----------|
| 0 | On | Off |
| 1 | Off | On |

FIGURE 4. Truth table.

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. V62/11608 |
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| COLUMBUS, OHIO | A | 16236 | |
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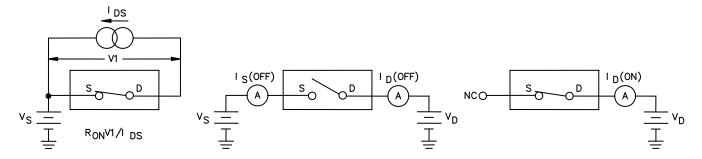


FIGURE 5. ON Resistance.

FIGURE 6. OFF leakage.

FIGURE 7. ON Leakage.

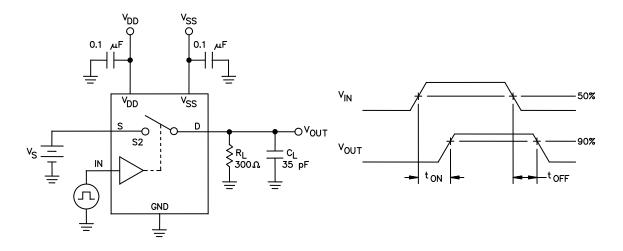


FIGURE 8. Switching times.

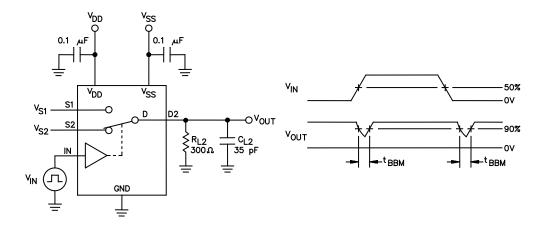


FIGURE 9. Break before make time delay.

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. |
|-----------------------|------|----------------|------------------|
| COLUMBUS, OHIO | A | 16236 | V62/11608 |
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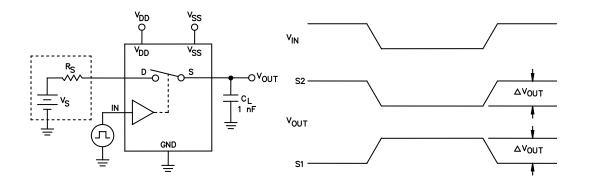


FIGURE 10. Charge injection.

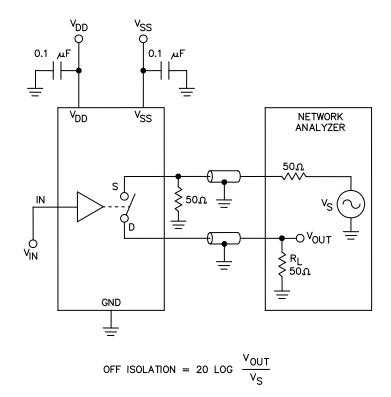
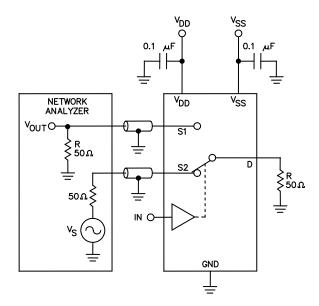


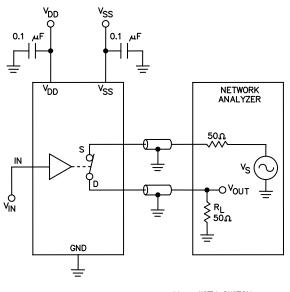
FIGURE 11. Off isolation.

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Channel-to-channel crosstalk = 20 $\log \frac{V_{OUT}}{V_S}$

FIGURE 12. Channel to channel crosstalk.



 $\begin{array}{l} \text{INSERTION LOSS = 20 LOG} \ \ \frac{\text{V}_{\text{OUT}} \text{ WITH SWITCH}}{\text{V}_{\text{S}} \text{ WITHOUT SWITCH}} \end{array}$

FIGURE 13. Bandwidth.

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. V62/11608 |
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4. VERIFICATION

4.1 <u>Product assurance requirements</u>. The manufacturer is responsible for performing all inspection and test requirements as indicated in their internal documentation. Such procedures should include proper handling of electrostatic sensitive devices, classification, packaging, and labeling of moisture sensitive devices, as applicable.

5. PREPARATION FOR DELIVERY

5.1 <u>Packaging</u>. Preservation, packaging, labeling, and marking shall be in accordance with the manufacturer's standard commercial practices for electrostatic discharge sensitive devices.

6. NOTES

- 6.1 ESDS. Devices are electrostatic discharge sensitive and are classified as ESDS class 1 minimum.
- 6.2 <u>Configuration control</u>. The data contained herein is based on the salient characteristics of the device manufacturer's data book. The device manufacturer reserves the right to make changes without notice. This drawing will be modified as changes are provided.
- 6.3 <u>Suggested source(s) of supply</u>. Identification of the suggested source(s) of supply herein is not to be construed as a guarantee of present or continued availability as a source of supply for the item.

| Vendor item drawing administrative control number 1/ | Device manufacturer CAGE code | Vendor part number |
|--|-------------------------------------|--------------------|
| V62/11608-01XE | 24355 | ADG619SRJZ-EP-RL7 |

1/ The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation.

<u>CAGE code</u> <u>Source of supply</u>

24355 Analog Devices Rt 1 Industrial Park

> PO Box 9106 Norwood, MA 02062

Point of contact: 7910 Triad Center Drive

Greensboro, NC 27409-9605

| DLA LAND AND MARITIME | SIZE | CODE IDENT NO. | DWG NO. |
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