

ADG5412F Family Data Sheet changes

This document highlights the performance changes on the data sheets of the ADG5412F family of Analog Switch and Multiplexers.

There are 7 generics included in this document and they are as follows:

1. ADG5412F/ADG5413F
2. ADG5412BF/ADG5413BF
3. ADG5404F
4. ADG5436F
5. ADG5462F

The tables below show a datasheet specification comparison of the current datasheet specification to the updated version for each generic. The changed specifications are highlighted in red font.

1. ADG5412F/ADG5413F SPECIFICATION CHANGES FROM Rev. A to Rev. B

±15 V DUAL SUPPLY

$V_{DD} = 15\text{ V} \pm 10\%$, $V_{SS} = -15\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								$V_{DD} = 16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5	±4.0	±20	±1.5	±5.0	±21	nA max	$V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 32
	±0.1			±0.1			nA typ	
Channel On Leakage, I_D (On), I_S (On)	±0.5	±4.0	±17	±1.5	±5.0	±18	nA max	$V_S = V_D = \pm 10\text{ V}$, see Figure 33
	±0.3			±0.3			nA typ	
Drain Leakage Current, I_D With Overvoltage	±1.0	±1.4	±4	±1.5	±2.0	±4.5	nA max	$V_{DD} = 16.5\text{ V}$, $V_{SS} = 16.5\text{ V}$, $GND = 0\text{ V}$, $V_S = \pm 55\text{ V}$, see Figure 36
	±1.2			±2.0			nA typ	
	±4.0	±11	±45	±8.0	±15	±49	nA max	

±20 V DUAL SUPPLY

$V_{DD} = 20\text{ V} \pm 10\%$, $V_{SS} = -20\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								$V_{DD} = 22\text{ V}$, $V_{SS} = -22\text{ V}$
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5	±4.0	±20	±1.5	±5.0	±21	nA max	$V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 32
	±0.1			±0.1			nA typ	
Channel On Leakage, I_D (On), I_S (On)	±0.5	±4.0	±17	±1.5	±5.0	±18	nA max	$V_S = V_D = \pm 15\text{ V}$, see Figure 33
	±0.3			±0.3			nA typ	
	±1.0	±1.4	±4	±1.5	±2.0	±4.5	nA max	

12 V SINGLE SUPPLY

$V_{DD} = 12\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$ $V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5 ±0.1	±4.0	±20	±1.5 ±0.1	±5.0	±21	nA max nA typ	$V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 32
Channel On Leakage, I_D (On), I_S (On)	±0.5 ±0.3	±4.0	±17	±1.5 ±0.3	±5.0	±18	nA max nA typ	$V_S = V_D = 1\text{ V}/10\text{ V}$, see Figure 33
Drain Leakage Current, I_D With Overvoltage	±1.0 ±1.2	±1.4	±4	±1.5 ±2.0	±2.0	±4.5	nA max nA typ	$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$ or floating, $GND = 0\text{ V}$, $V_S = \pm 55\text{ V}$, see Figure 36
	±4.0	±11	±45	±8.0	±15	±49	nA max	

36 V SINGLE SUPPLY

$V_{DD} = 36\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$ $V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5 ±0.1	±4.0	±20	±1.5 ±0.1	±5.0	±21	nA max nA typ	$V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 32
Channel On Leakage, I_D (On), I_S (On)	±0.5 ±0.3	±4.0	±17	±1.5 ±0.3	±5.0	±18	nA max nA typ	$V_S = V_D = 1\text{ V}/30\text{ V}$, see Figure 33
Drain Leakage Current, I_D With Overvoltage	±1.0 ±1.2	±1.4	±4	±1.5 ±2.0	±2.0	±4.5	nA max nA typ	$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$ or floating, $GND = 0\text{ V}$, $V_S = +55\text{ V}$, -40 V , see Figure 36
	±4.0	±11	±45	±8.0	±15	±49	nA max	

2. ADG5412BF/ADG5412BF SPECIFICATION CHANGES FROM Rev. A to Rev. B

±15 V DUAL SUPPLY

$V_{DD} = 15\text{ V} \pm 10\%$, $V_{SS} = -15\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$ $V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 33
Drain Off Leakage, I_D (Off)	±0.5	±4.5	±23	±1.5	±5.5	±24	nA max	$V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 33
	±0.1			±0.1			nA typ	
Channel On Leakage, I_D (On), I_S (On)	±0.5	±4.5	±19	±1.5	±5.5	±20	nA max	$V_S = V_D = \pm 10\text{ V}$, see Figure 34
	±0.3			±0.3			nA typ	
	±1.0	±1.6	±4.5	±2.0	±2.5	±5.5	nA max	

±20 V DUAL SUPPLY

$V_{DD} = 20\text{ V} \pm 10\%$, $V_{SS} = -20\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 22\text{ V}$, $V_{SS} = -22\text{ V}$ $V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 33
Drain Off Leakage, I_D (Off)	±0.5	±4.5	±23	±1.5	±5.5	±24	nA max	$V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 33
	±0.1			±0.1			nA typ	
Channel On Leakage, I_D (On), I_S (On)	±0.5	±4.5	±19	±1.5	±5.5	±20	nA max	$V_S = V_D = \pm 15\text{ V}$, see Figure 34
	±0.3			±0.3			nA typ	
	±1.8	±2.4	±5.3	±2.0	±2.5	±5.5	nA max	

12 V SINGLE SUPPLY

$V_{DD} = 12\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 33
Drain Off Leakage, I_D (Off)	±0.5	±4.5	±23	±1.5	±5.5	±24	nA max	$V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 33
	±0.1			±0.1			nA typ	
Channel On Leakage, I_D (On), I_S (On)	±0.5	±4.5	±19	±1.5	±5.5	±20	nA max	$V_S = V_D = 1\text{ V}/10\text{ V}$, see Figure 34
	±0.3			±0.3			nA typ	
	±1.0	±1.6	±4.5	±2.0	±2.5	±5.5	nA max	

36 V SINGLE SUPPLY

$V_{DD} = 36\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 33
Drain Off Leakage, I_D (Off)	±0.5	±4.5	±23	±1.5	±5.5	±24	nA max	$V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 33
	±0.1			±0.1			nA typ	
Channel On Leakage, I_D (On), I_S (On)	±0.5	±4.5	±17	±1.5	±5.5	±20	nA max	$V_S = V_D = 1\text{ V}/30\text{ V}$, see Figure 34
	±0.3			±0.3			nA typ	
	±1.0	±1.6	±4.5	±2.0	±2.5	±5.5	nA max	

3. ADG5404F SPECIFICATION CHANGES FROM Rev. A to Rev. B

±15 V DUAL SUPPLY

$V_{DD} = 15\text{ V} \pm 10\%$, $V_{SS} = -15\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$ $V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5 ±0.3	±4	±20	±1.5 ±0.3	±5.0	±21	nA max nA typ	$V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 32
Channel On Leakage, I_D (On), I_S (On)	±1.0 ±0.3 ±1.0	±15	±65	±1.5 ±0.3 ±1.5	±16.0	±66	nA max nA typ nA max	$V_S = V_D = \pm 10\text{ V}$, see Figure 33

±20 V DUAL SUPPLY

$V_{DD} = 20\text{ V} \pm 10\%$, $V_{SS} = -20\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 22\text{ V}$, $V_{SS} = -22\text{ V}$ $V_S = \pm 15\text{ V}$, $V_D = \pm 15\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5 ±0.3	±4	±20	±1.5 ±0.3	±5.0	±21	nA max nA typ	$V_S = \pm 15\text{ V}$, $V_D = \pm 15\text{ V}$, see Figure 32
Channel On Leakage, I_D (On), I_S (On)	±1.0 ±0.3 ±1.0	±15	±65	±1.5 ±0.3 ±1.5	±16.0	±66	nA max nA typ nA max	$V_S = V_D = \pm 15\text{ V}$, see Figure 33

12 V SINGLE SUPPLY

$V_{DD} = 12\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5 ±0.3	±4	±20	±1.5 ±0.3	±5.0	±21	nA max nA typ	$V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 32
Channel On Leakage, I_D (On), I_S (On)	±1.0 ±0.3	±15	±65	±1.5 ±0.3	±16.0	±66	nA max nA typ	$V_S = V_D = 1\text{ V}/10\text{ V}$, see Figure 33
	±1.0	±13.4	±55	±1.5	±14.0	±56	nA max	

36 V SINGLE SUPPLY

$V_{DD} = 36\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 32
Drain Off Leakage, I_D (Off)	±0.5 ±0.3	±4	±20	±1.5 ±0.3	±5.0	±21	nA max nA typ	$V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 32
Channel On Leakage, I_D (On), I_S (On)	±1.0 ±0.3	±15	±65	±1.5 ±0.3	±16.0	±66	nA max nA typ	$V_S = V_D = 1\text{ V}/30\text{ V}$, see Figure 33
	±1.0	±13.4	±55	±1.5	±14.0	±56	nA max	

4. ADG5436F SPECIFICATION CHANGES FROM Rev. A to Rev. B

±15 V DUAL SUPPLY

$V_{DD} = 15\text{ V} \pm 10\%$, $V_{SS} = -15\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$ $V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 31
Drain Off Leakage, I_D (Off)	±0.5 ±0.1	±4.0	±20	±1.5 ±0.1	±5.0	±21	nA max nA typ	$V_S = \pm 10\text{ V}$, $V_D = \mp 10\text{ V}$, see Figure 31
Channel On Leakage, I_D (On), I_S (On)	±0.5 ±0.5	±6.0	±24	±1.5 ±0.5	±7.0	±25	nA max nA typ	$V_S = V_D = \pm 10\text{ V}$, see Figure 32
Drain Leakage Current, I_D With Overvoltage	±1.0 ±1.2	±4.0	±20	±1.5 ±2.0	±5.0	±21	nA max nA typ	$V_{DD} = 16.5\text{ V}$, $V_{SS} = 16.5\text{ V}$, $GND = 0\text{ V}$, $V_S = \pm 55\text{ V}$, see Figure 35
	±4.0	±11	±45	±8.0	±15	±49	nA max	

±20 V DUAL SUPPLY

$V_{DD} = 20\text{ V} \pm 10\%$, $V_{SS} = -20\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 22\text{ V}$, $V_{SS} = -22\text{ V}$ $V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 31
Drain Off Leakage, I_D (Off)	±0.5 ±0.1	±4.0	±20	±1.5 ±0.1	±5.0	±21	nA max nA typ	$V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 31
Channel On Leakage, I_D (On), I_S (On)	±0.5 ±0.5	±6.0	±24	±1.5 ±0.5	±7.0	±25	nA max nA typ	$V_S = V_D = \pm 15\text{ V}$, see Figure 32
	±1.0	±4.0	±20	±1.5	±5.0	±21	nA max	

12 V SINGLE SUPPLY

$V_{DD} = 12\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$ $V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 31
Drain Off Leakage, I_D (Off)	±0.5 ±0.1	±4.0	±20	±1.5 ±0.1	±5.0	±21	nA max nA typ	$V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 31
Channel On Leakage, I_D (On), I_S (On)	±0.5 ±0.5	±6.0	±24	±1.5 ±0.5	±7.0	±25	nA max nA typ	$V_S = V_D = 1\text{ V}/10\text{ V}$, see Figure 32
Drain Leakage Current, I_D With Overvoltage	±1.0 ±1.2	±4.0	±20	±1.5 ±2.0	±5.0	±21	nA max nA typ	$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$ or floating, $GND = 0\text{ V}$, $V_S = \pm 55\text{ V}$, see Figure 35
	±4.0	±11	±45	±8.0	±15	±49	nA max	

36 V SINGLE SUPPLY

$V_{DD} = 36\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$ $V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 31
Drain Off Leakage, I_D (Off)	±0.5 ±0.1	±4.0	±20	±1.5 ±0.1	±5.0	±21	nA max nA typ	$V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 31
Channel On Leakage, I_D (On), I_S (On)	±0.5 ±0.5	±6.0	±24	±1.5 ±0.5	±7.0	±25	nA max nA typ	$V_S = V_D = 1\text{ V}/30\text{ V}$, see Figure 32
Drain Leakage Current, I_D With Overvoltage	±1.0 ±1.2	±4.0	±20	±1.5 ±2.0	±5.0	±21	nA max nA typ	$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$ or floating, $GND = 0\text{ V}$, $V_S = +55\text{ V}$, -40 V , see Figure 35
	±4.0	±11	±45	±8.0	±15	±49	nA max	

5. ADG5462F SPECIFICATION CHANGES FROM Rev. A to Rev. B

±15 V DUAL SUPPLY

$V_{DD} = 15\text{ V} \pm 10\%$, $V_{SS} = -15\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	$V_{DD} = 16.5\text{ V}$, $V_{SS} = -16.5\text{ V}$ $V_S = V_D = \pm 10\text{ V}$, see Figure 36
	±1.0	±1.4	±4	±1.5	±2.0	±4.5	nA max	
Drain Leakage Current, I_D With Overvoltage	±1.2			±2.0			nA typ	$V_{DD} = 16.5\text{ V}$, $V_{SS} = 16.5\text{ V}$, $GND = 0\text{ V}$, $V_S = \pm 55\text{ V}$, see Figure 37
	±4.0	±11	±45	±8.0	±15	±49	nA max	

±20 V DUAL SUPPLY

$V_{DD} = 20\text{ V} \pm 10\%$, $V_{SS} = -20\text{ V} \pm 10\%$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	$V_{DD} = 22\text{ V}$, $V_{SS} = -22\text{ V}$ $V_S = \pm 15\text{ V}$, $V_D = \mp 15\text{ V}$, see Figure 36
	±1.0	±1.4	±4	±1.5	±2.0	±4.5	nA max	

12 V SINGLE SUPPLY

$V_{DD} = 12\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\text{ }\mu\text{F}$, unless otherwise noted.

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$ $V_S = 1\text{ V}/10\text{ V}$, $V_D = 10\text{ V}/1\text{ V}$, see Figure 36
	±1.0	±1.4	±4	±1.5	±2.0	±4.5	nA max	
Drain Leakage Current, I_D With Overvoltage	±1.2			±2.0			nA typ	$V_{DD} = 13.2\text{ V}$, $V_{SS} = 0\text{ V}$ or floating, $GND = 0\text{ V}$, $V_S = \pm 55\text{ V}$, see Figure 37
	±4.0	±11	±45	±8.0	±15	±49	nA max	

36 V SINGLE SUPPLY

$V_{DD} = 36\text{ V} \pm 10\%$, $V_{SS} = 0\text{ V}$, $GND = 0\text{ V}$, $C_{DECOUPLING} = 0.1\ \mu\text{F}$, unless otherwise noted

Parameter	Rev. A			Rev. B			Unit	Test Conditions/Comments
	+25°C	-40°C to +85°C	-40°C to +125°C	+25°C	-40°C to +85°C	-40°C to +125°C		
LEAKAGE CURRENTS								
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$ $V_S = 1\text{ V}/30\text{ V}$, $V_D = 30\text{ V}/1\text{ V}$, see Figure 36
Drain Leakage Current, I_D With Overvoltage	±1.0	±1.4	±4	±1.5	±2.0	±4.5	nA max	$V_{DD} = 39.6\text{ V}$, $V_{SS} = 0\text{ V}$ or floating, $GND = 0\text{ V}$, $V_S = +55\text{ V}$, -40 V, see Figure 37
	±1.2			±2.0			nA typ	
	±4.0	±11	±45	±8.0	±15	±49	nA max	