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 V ± 10%, V_{SS} = −15 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} = 16.5 V, V_{SS} = −16.5 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = ±10 V, V_D = ∓10 V, see Figure 32
	±0.5	±4.0	±20	±1.5	±5.0	±21	nA max	
Drain Off Leakage, I_D (Off)	±0.1			±0.1			nA typ	V_S = ±10 V, V_D = ∓10 V, see Figure 32
	±0.5	±4.0	±17	±1.5	±5.0	±18	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = ±10 V, see Figure 33
	±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 V, V_{SS} = 16.5 V, GND = 0 V, V_S = ±55 V, see Figure 36
	±4.0	±11	±45	±8.0	±15	±49	nA max	

±20 V DUAL SUPPLY

V_{DD} = 20 V ± 10%, V_{SS} = −20 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

12 V SINGLE SUPPLY

V_{DD} = 12 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

36 V SINGLE SUPPLY

V_{DD} = 36 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} =39.6 V, V_{SS} = 0 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 32
	±0.5	±4.0	±20	±1.5	±5.0	±21	nA max	
Drain Off Leakage, I_D (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 32
	±0.5	±4.0	±17	±1.5	±5.0	±18	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = 1 V/30 V, see Figure 33
	±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} = 39.6 V, V_{SS} = 0 V or floating, GND = 0 V, V_S = +55 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 V ± 10%, V_{SS} = −15 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

±20 V DUAL SUPPLY

V_{DD} = 20 V ± 10%, V_{SS} = −20 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

12 V SINGLE SUPPLY

V_{DD} = 12 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

36 V SINGLE SUPPLY

V_{DD} = 36 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} = 39.6 V, V_{SS} = 0 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 33
	±0.5	±4.5	±23	±1.5	±5.5	±24	nA max	
Drain Off Leakage, I_D (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 33
	±0.5	±4.5	±17	±1.5	±5.5	±20	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = 1 V/30 V, see Figure 34
	±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 V ± 10%, V_{SS} = −15 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} = 16.5 V, V_{SS} = −16.5 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = ±10 V, V_D = ∓10 V, see Figure 32
	±0.5	±4	±20	±1.5	±5.0	±21	nA max	
Drain Off Leakage, I_D (Off)	±0.3			±0.3			nA typ	V_S = ±10 V, V_D = ∓10 V, see Figure 32
	±1.0	±15	±65	±1.5	±16.0	±66	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = ±10 V, see Figure 33
	±1.0	±13.4	±55	±1.5	±14.0	±56	nA max	

±20 V DUAL SUPPLY

V_{DD} = 20 V ± 10%, V_{SS} = −20 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} = 22 V, V_{SS} = −22 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = ±15 V, V_D = ±15 V, see Figure 32
	±0.5	±4	±20	±1.5	±5.0	±21	nA max	
Drain Off Leakage, I_D (Off)	±0.3			±0.3			nA typ	V_S = ±15 V, V_D = ±15 V, see Figure 32
	±1.0	±15	±65	±1.5	±16.0	±66	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = ±15 V, see Figure 33
	±1.0	±13.4	±55	±1.5	±14.0	±56	nA max	

12 V SINGLE SUPPLY

V_{DD} = 12 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

36 V SINGLE SUPPLY

V_{DD} = 36 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} =39.6 V, V_{SS} = 0 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 32
	±0.5	±4	±20	±1.5	±5.0	±21	nA max	
Drain Off Leakage, I_D (Off)	±0.3			±0.3			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 32
	±1.0	±15	±65	±1.5	±16.0	±66	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = 1 V/30 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 V ± 10%, V_{SS} = −15 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

±20 V DUAL SUPPLY

V_{DD} = 20 V ± 10%, V_{SS} = −20 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

12 V SINGLE SUPPLY

V_{DD} = 12 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

36 V SINGLE SUPPLY

V_{DD} = 36 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} =39.6 V, V_{SS} = 0 V
Source Off Leakage, I_S (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 31
	±0.5	±4.0	±20	±1.5	±5.0	±21	nA max	
Drain Off Leakage, I_D (Off)	±0.1			±0.1			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 V, see Figure 31
	±0.5	±6.0	±24	±1.5	±7.0	±25	nA max	
Channel On Leakage, I_D (On), I_S (On)	±0.5			±0.5			nA typ	V_S = V_D = 1 V/30 V, see Figure 32
	±1.0	±4.0	±20	±1.5	±5.0	±21	nA max	
Drain Leakage Current, I_D								
With Overvoltage	±1.2			±2.0			nA typ	V_{DD} = 39.6 V, V_{SS} = 0 V or floating, GND = 0 V, V_S = +55 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 V ± 10%, V_{SS} = −15 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} = 16.5 V, V_{SS} = −16.5 V
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = V_D = ±10 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 V, V_{SS} = 16.5 V, GND = 0 V, V_S = ±55 V, see Figure 37
	±4.0	±11	±45	±8.0	±15	±49	nA max	

±20 V DUAL SUPPLY

V_{DD} = 20 V ± 10%, V_{SS} = −20 V ± 10%, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

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

12 V SINGLE SUPPLY

V_{DD} = 12 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted.

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} = 13.2 V, V_{SS} = 0 V
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = 1 V/10 V, V_D = 10 V/1 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 V, V_{SS} = 0 V or floating, GND = 0 V, V_S = ±55 V, see Figure 37
	±4.0	±11	±45	±8.0	±15	±49	nA max	

36 V SINGLE SUPPLY

V_{DD} = 36 V ± 10%, V_{SS} = 0 V, GND = 0 V, $C_{DECOUPLING}$ = 0.1 µF, unless otherwise noted

	Rev. A			Rev. B				
Parameter	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**+25°C**	**−40°C to +85°C**	**−40°C to +125°C**	**Unit**	**Test Conditions/Comments**
LEAKAGE CURRENTS								V_{DD} =39.6 V, V_{SS} = 0 V
Channel On Leakage, I_D (On), I_S (On)	±0.3			±0.3			nA typ	V_S = 1 V/30 V, V_D = 30 V/1 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} = 39.6 V, V_{SS} = 0 V or floating, GND = 0 V, V_S = +55 V, −40 V, see Figure 37
	±4.0	±11	±45	±8.0	±15	±49	nA max	