

ADG5412F Family Data Sheet changes

This document highlights the specification changes on the data sheets of the ADG5412f family of Analog Switch and Multiplexers. The only parameter affected by this change is the Max Drain Leakage Current with Overvoltage.

There are 6 affected generics:

1. ADG5412F
2. ADG5413F
3. ADG5436F
4. ADG5462F
5. ADG5404F
6. ADG5412F-EP

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.

ADG5412F/ADG5413F Specification Changes from Rev. B to REV. C

±15 V Dual Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+12 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+36 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

ADG5436F Specification Changes from Rev. B to REV. C

±15 V Dual Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±72 ±49			±72 ±49	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10			±10			nA typ
	±30	±50	±100	±30	±50	±100	nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+12 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±65 ±49			±65 ±49	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10			±10			nA typ
	±30	±50	±100	±30	±50	±100	nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+36 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±60 ±49			±60 ±49	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10			±10			nA typ
	±30	±50	±100	±30	±50	±100	nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

ADG5462F Specification Changes from Rev. B to REV. C

±15 V Dual Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10			±10			nA typ
	±30	±50	±100	±30	±50	±100	nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+12 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10			±10			nA typ
	±30	±50	±100	±30	±50	±100	nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+36 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10			±10			nA typ
	±30	±50	±100	±30	±50	±100	nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

ADG5404F Specification Changes from Rev. B to REV. C

±15 V Dual Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±81 ±44			±81 ±44	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±6 ±15	±35	±80	±6 ±27	±60	±140	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+12 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±73 ±44			±73 ±44	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±6 ±15	±35	±80	±6 ±27	±60	±140	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+36 V Single Supply

Parameter	Rev. B			Rev. C			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±68 ±44			±68 ±44	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±6 ±15	±35	±80	±6 ±27	±60	±140	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

ADG5412F-EP Specification Changes from Rev. A to REV. B

±15 V Dual Supply

Parameter	Rev. A			Rev. B			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+12 V Single Supply

Parameter	Rev. A			Rev. B			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ

+36 V Single Supply

Parameter	Rev. A			Rev. B			Unit
	+25°C	−40°C to +85°C	−40°C to +125°C	+25°C	−40°C to +85°C	−40°C to +125°C	
FAULT							
Source Leakage Current, I_s With Overvoltage Power Supplies Grounded or Floating			±78 ±40			±78 ±40	μA typ μA typ
Drain Leakage Current, I_D With Overvoltage	±2.0 ±8.0	±15	±49	±2.0 ±20	±30	±65	nA typ nA max
Power Supplies Grounded	±10 ±30	±50	±100	±10 ±30	±50	±100	nA typ nA max
Power Supplies Floating	±10	±10	±10	±10	±10	±10	μA typ