

# PCN 16\_0032

## ADG465 Data Sheet Changes

### Rev. A to Rev. B

This document highlights the performance changes from the Rev. A to the Rev. B data sheet for the ADG465 Single Channel Protector.

For full product information and changes to Typical Performance Characteristics plots please refer to the ADG465 Rev. B data sheet.

#### 1. Datasheet specification changes from Rev. A to Rev. B

Table 1 outlines the datasheet specification comparison of the Rev. A to Rev. B material. The changed specifications are highlighted in red font.

# SPECIFICATION CHANGES FROM Rev. A to Rev. B

**Table 1.**  $V_{DD} = +15\text{ V}$ ,  $V_{SS} = -15\text{ V}$ ,  $GND = 0\text{ V}$ , unless otherwise noted. Temperature range is  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

		Rev. A						Rev. B							
Parameter	Symbols	25°C			B Grade			25°C			−40°C to +85°C			Unit	Test Conditions/ Comments
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
FAULT PROTECTED CHANNEL															
Fault Free Analog Signal Range <sup>i</sup>					V <sub>SS</sub> +1.2		V <sub>DD</sub> -0.8				V <sub>SS</sub> +1.5		V <sub>DD</sub> -1.5	V	Output open circuit
R <sub>ON</sub>			80	95			115		80	99.5			126.5	Ω	−10 V ≤ V <sub>S</sub> ≤ +10 V, I <sub>S</sub> = 1 mA
ΔR <sub>ON</sub>				4			5			8.5			9	Ω	−5 V ≤ V <sub>S</sub> ≤ +5 V
LEAKAGE CURRENTS															
Channel Output Leakage (Without Fault Condition)	I <sub>S (ON)</sub>		±0.1	±1		±1	±5		±0.1	±1		±1	±5	nA	V <sub>S</sub> = V <sub>D</sub> = ±10 V
Channel Input Leakage (With Fault Condition)	I <sub>D (ON)</sub>		±0.2	±2		±0.4	±5		±0.2	±2		±0.4	±5	nA	V <sub>S</sub> = ±25 V, V <sub>D</sub> = open circuit
Channel Input Leakage (With Power Off and Fault)	I <sub>D (OFF)</sub>		±0.5	±2		±2	±10		±0.5	±2		±2	±10	nA	V <sub>DD</sub> = 0 V, V <sub>SS</sub> = 0 V, V <sub>S</sub> = ±35 V, V <sub>D</sub> = open circuit
Channel Input Leakage (With Power Off and Output Short Circuit)	I <sub>D (OFF)</sub>		±0.005	±0.015		±0.1	±0.5		±0.005	±0.015		±0.1	±0.5	μA	V <sub>DD</sub> = 0 V, V <sub>SS</sub> = 0 V, V <sub>S</sub> = ±35 V, V <sub>D</sub> = 0 V
POWER REQUIREMENTS															
Positive Supply Current	I <sub>DD</sub>		±0.05	±0.5			±5		±0.05	±0.5			±5	μA	
Negative Supply Current	I <sub>SS</sub>		±0.05	±0.5			±5		±0.05	±0.5			±5	μA	
Positive/Negative Power Supply	V <sub>DD</sub> /V <sub>SS</sub>	0		±20	0		±20	0		±20	0		±20	V	

<sup>i</sup> Guaranteed by design, not subject to production test.