ADHV4710
Datasheet Revision

Datasheet Specification Comparison – Quiescent Current (Shutdown)

Rev. 1 (Old)

	VCC_5V		4.7	5	5.5	V
Quiescent Current (Enabled)	I_{HVCC}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V. See *Programmable Quiescent Current*.		12	14.5	mA
	I_{HVEE}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V. See *Programmable Quiescent Current*.	−14.5	−12		mA
Quiescent Current (Enabled)	I_{VCC_5V}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V		6	10	mA
Quiescent Current (Shutdown)	I_{HVCC}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V		120	160	µA
	I_{HVEE}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V	−160	−120		µA
Quiescent Current (Shutdown) [8]	I_{VCC_5V}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V		5	10	mA
Power Supply Rejection Ratio	$PSRR_{HVCC}$	HVCC = 50V to 55V, HVEE = −52.5V		111		dB
	$PSRR_{HVEE}$	HVCC = 52.5 V, HVEE = −50V to −55V		115		dB

Rev. 2 (New)

	VCC_5V		4.7	5	5.5	V
Quiescent Current (Enabled)	I_{HVCC}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V. See *Programmable Quiescent Current*.		12	14.5	mA
	I_{HVEE}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V. See *Programmable Quiescent Current*.	−14.5	−12		mA
Quiescent Current (Enabled)	I_{VCC_5V}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V		6	10	mA
Quiescent Current (Shutdown)	I_{HVCC}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V		120	190	µA
	I_{HVEE}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V	−190	−120		µA
Quiescent Current (Shutdown) [8]	I_{VCC_5V}	HVCC/HVEE = ±55V, VCC_5V = 5.5V, VREF_5V = 5.6V		5	10	mA
Power Supply Rejection Ratio	$PSRR_{HVCC}$	HVCC = 50V to 55V, HVEE = −52.5V		111		dB

Datasheet Specification Comparison – DC Overcurrent Protection – Sinking Code Range

Rev. 1 (Old)

		Delayed Shutdown.				
DC OVERCURRENT PROTECTION						
Sourcing Setpoint Range Max				1		A
Sourcing Code Range			0x06		0x40	
Sinking Setpoint Range Max				−1		A
Sinking Code Range			0x40		0x06	
Setpoint Resolution				15.625		mA/lsb
Setpoint Accuracy		Code = 0x06, 93.75mA		3.6		%
Shutdown Response Time		C_{SDN_IO} = DNI, Code = 0x32		1.6		us

Rev. 2 (New)

		Delayed Shutdown.				
DC OVERCURRENT PROTECTION						
Sourcing Setpoint Range Max				1		A
Sourcing Code Range			0x06		0x40	
Sinking Setpoint Range Max				−1		A
Sinking Code Range			0x06		0x40	
Setpoint Resolution				15.625		mA/lsb
Setpoint Accuracy		Code = 0x06, 93.75mA		3.6		%
Shutdown Response Time		C_{SDN_IO} = DNI, Code = 0x32		1.6		us

Datasheet Specification Comparison – DC Overvoltage Protection – Positive/Negative Code Range

Rev. 1 (Old)

DC OVERVOLTAGE PROTECTION

Positive Voltage Setpoint Range Max				105		V
Positive Code Range			0x01		0x35	
Negative Voltage Setpoint Range Max				−55		V
Negative Code Range			0x52		0x1C	

(HVCC/HVEE = ±50V, SET_IQ = 0x00, VCC_5V = +5V, VREF_5V = +5V, COMP_L, COMP_H = none, R_{SLEW} = 0Ω, gain (A_V) = 57, feedback resistor (R_F) = 56kΩ, noninverting configuration, C_{LOAD} = 1nF, T_C = 30°C, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS/COMMENTS	MIN	TYP	MAX	UNITS
Setpoint Resolution				1.953		V/lsb
Setpoint Accuracy		Code = 0x1A, ~50V		1.2		%
Shutdown Response Time		C_{SDN_IO} = DNI, Code = 0x1A		0.9		us

Rev. 2 (New)

DC OVERVOLTAGE PROTECTION

Positive Voltage Setpoint Range Max				105		V
Positive Code Range			0x06		0x35	
Negative Voltage Setpoint Range Max				−55		V

(HVCC/HVEE = ±50V, SET_IQ = 0x00, VCC_5V = +5V, VREF_5V = +5V, COMP_L, COMP_H = none, R_{SLEW} = 0Ω, gain (A_V) = 57, feedback resistor (R_F) = 56kΩ, noninverting configuration, C_{LOAD} = 1nF, T_C = 30°C, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS/COMMENTS	MIN	TYP	MAX	UNITS
Negative Code Range			0x06		0x1C	
Setpoint Resolution				1.953		V/lsb
Setpoint Accuracy		Code = 0x1A, ~50V		1.2		%
Shutdown Response Time		C_{SDN_IO} = DNI, Code = 0x1A		0.9		us

AHEAD OF WHAT'S POSSIBLE

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