

LT4356-1/LT4356-2 Data Sheet Limit Change Comparison



VCC Supply Current Limit Change



▶ V_{CC} supply Current (LT4356H-1) max limit to be changed from 40 μ A to 50 μ A.

BEFORE

<u>LT4356-1/LT4356-2</u>

ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^{\circ}$ C. $V_{CC} = 12$ V unless otherwise noted.

SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	UNITS
V _{CC}	Operating Voltage Range		•	4		80	V
I _{CC}	V _{CC} Supply Current	V _{SHDN} = Float	•		1	1.5	mA
		V _{SHDN} = 0V, IN ⁺ = 1.3V, LT4356-1 LT4356I-1, LT4356C-1 LT4356H-1	•		7 7 7	25 30 40	ДЦ Ац Ац

AFTER

LT4356-1/LT4356-2

ELECTRICAL CHARACTERISTICS The • denotes the specifications which apply over the full operating temperature range, otherwise specifications are at T_A = 25°C. V_{CC} = 12V unless otherwise noted.

SYMBOL	PARAMETER	CONDITIONS		MIN	TYP	MAX	UNITS
V _{CC}	Operating Voltage Range		•	4		80	V
Icc	V _{CC} Supply Current	V _{SHDN} = Float	•		1	1.5	mA
		V _{SHDN} = 0V, IN+ = 1.3V, LT4356-1 LT4356I-1, LT4356C-1 LT4356H-1	• •		7 7 7	25 30 50	μΑ μΑ μΑ



SHDN Pin Resting Voltage and Pin Current Limit Change



- ► SHDN Pin Resting Voltage max limit to be changed from 2.1 V to 2.3 V.
- ▶ SHDN Pin Current max limit to be changed from -8 μA to -12 μA

BEFORE

LT4356-1/LT4356-2

ELECTRICAL CHARACTERISTICS The • denotes the specifications which apply over the full operating temperature range, otherwise specifications are at T _A = 25°C. V _{CC} = 12V unless otherwise noted.										
SYMBOL	PARAMETER	CONDITIONS			MIN	TYP	MAX	UNITS		
V _{SHDN} (FLT)	SHDN Pin Resting Voltage	V _{CC} = 12V to 48V, Note 4	•	•	0.6		2.1	V		
ISHDN	SHDN Pin Current	V _{SHDN} = 0V	•	,	-1	-4	-8	μA		

AFTER

<u>LT4356-1/LT4356-2</u>

ELECTRICAL CHARACTERISTICS The \bullet denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^{\circ}C$. $V_{CC} = 12V$ unless otherwise noted.

SYMBO	L PARAMETER	CONDITIONS		MIN	TYP	MAX	UNITS
V _{SHDN(F}	SHDN Pin Resting Voltage	V _{CC} = 12V to 48V, Note 4	•	0.6		2.3	V
SHDN	SHDN Pin Current	V _{SHDN} = 0V	•	-1	-4	-12	μA



Applications Information (Shutdown)



► Corrected shutdown threshold number of 0.6V to 0.4V to be consistent with SHDN Pin Threshold spec over temperature.

BEFORE

Shutdown

The LT4356 can be shut down to a low current mode when the voltage at the \overline{SHDN} pin goes below the shutdown threshold of $\overline{0.6V}$. The quiescent current drops to $7\mu A$ for the LT4356-1 and $60\mu A$ for the LT4356-2 which leaves the auxiliary amplifier on.

The \overline{SHDN} pin can be pulled up to V_{CC} or below GND by up to 60V without damaging the pin. Leaving the pin open allows an internal current source to pull it up and turn on the part while clamping the pin to 2.5V. The leakage current at the pin should be limited to no more than $1\mu A$ if no pull up device is used to help turn it on.

AFTER

Shutdown

The LT4356 can be shut down to a low current mode when the voltage at the \overline{SHDN} pin goes below the shutdown threshold of 0.4V. The quiescent current drops to $7\mu A$ for the LT4356-1 and $60\mu A$ for the LT4356-2 which leaves the auxiliary amplifier on.

The \overline{SHDN} pin can be pulled up to V_{CC} or below GND by up to 60V without damaging the pin. Leaving the pin open allows an internal current source to pull it up and turn on the part while clamping the pin to 2.5V. The leakage current at the pin should be limited to no more than 1 μ A if no pull up device is used to help turn it on.