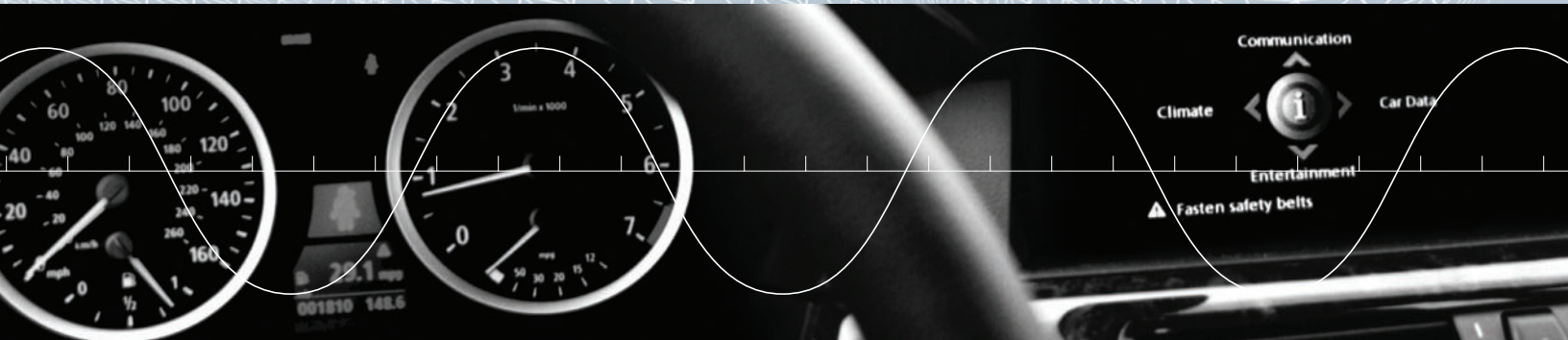
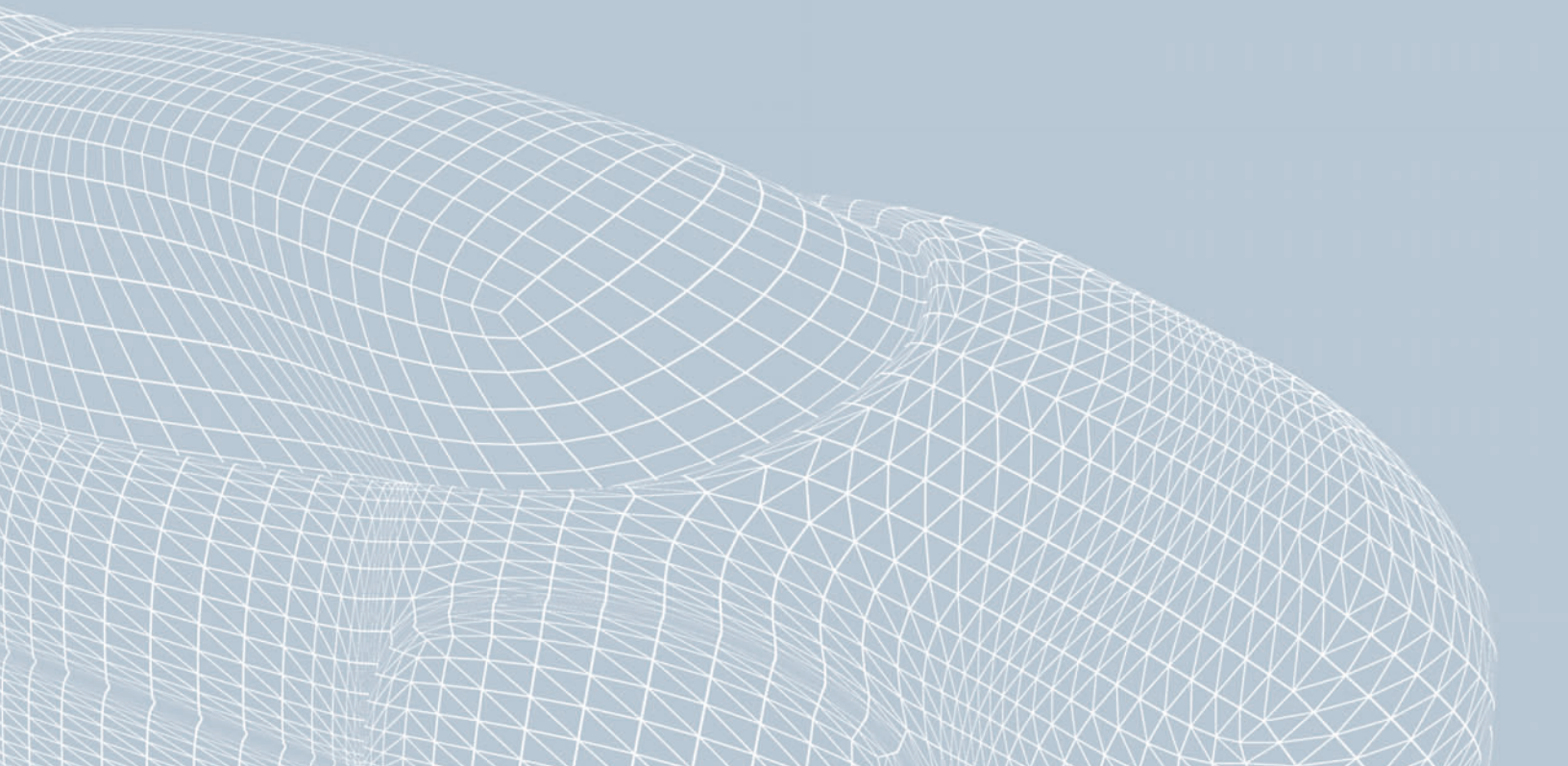


03.2005

Automotive Electronics Solutions

High Performance Analog ICs



Today's automotive environment demands high input voltage capability, wide operating temperature ranges and efficient thermal management. Consumer expectations and extended warranties demand years of trouble-free operation, so rugged dependable power conversion and management, signal conditioning and data conversion solutions are essential. Linear Technology's high-performance analog ICs provide efficient, compact and dependable solutions for use in engine management systems, body electronics and comfort systems.

This selection guide features recommended Linear Technology solutions for a wide range of functions commonly used in today's automobiles, including telematics and infotainment systems, body electronics and engine management, safety systems and GPS/navigation systems. For information on our latest product releases for the continuously evolving automotive market, visit our web site at www.linear.com.

Linear Technology Automotive Awards

1993

ISO9001 Certification

1998

Ford Q1 Preferred Quality

1998

QS9000 Certification

2001

ISO14001 Certification

2002

Delphi Absolute Zero Defect Award

2003

TS16949: 2002 Certification

ISO9001: 2000 Certification

Delphi Commendation Award

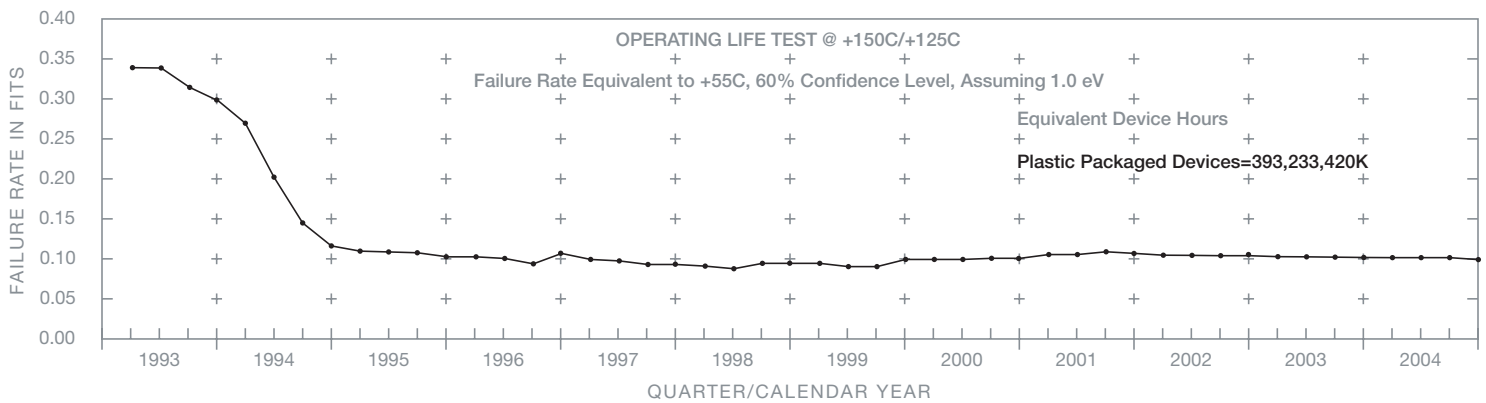
2004

Harmon/Becker Automotive Systems A-Supplier Award

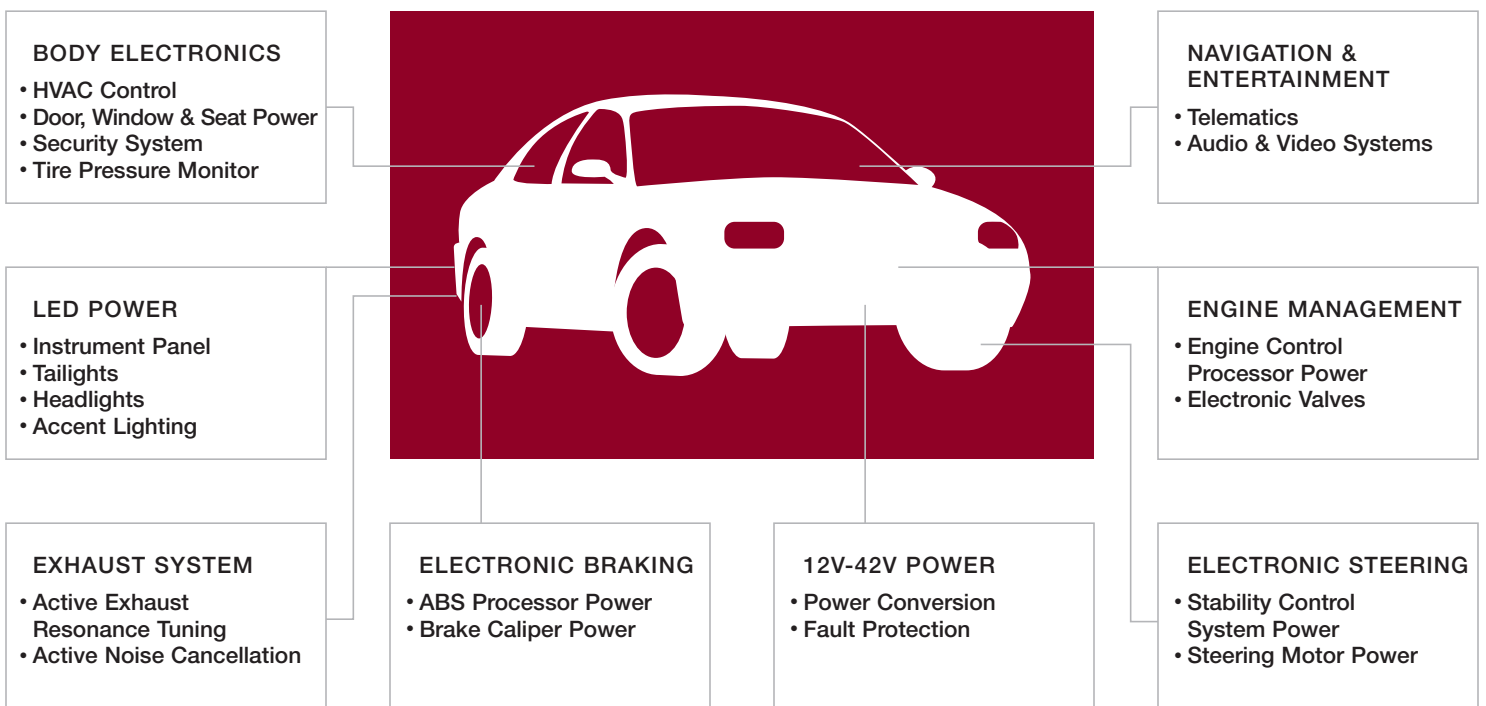
Best Supplier Rating,

0 ppm failure rate, 0 complaints

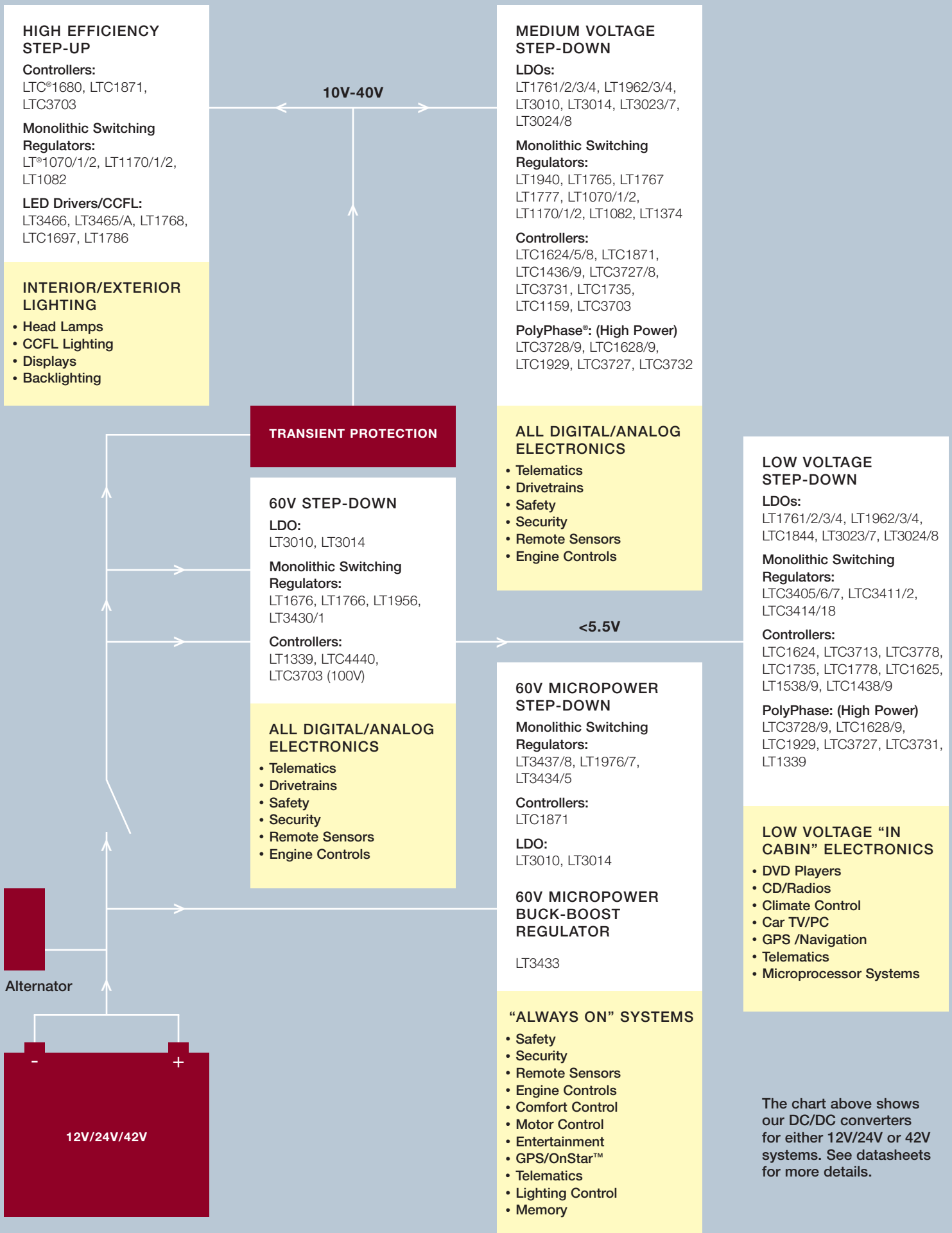
Reliability Improvement



Automotive Electronics



Automotive Power Products



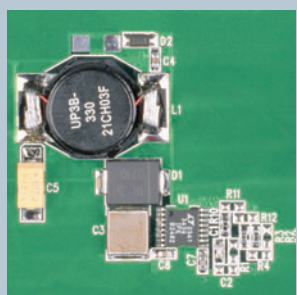
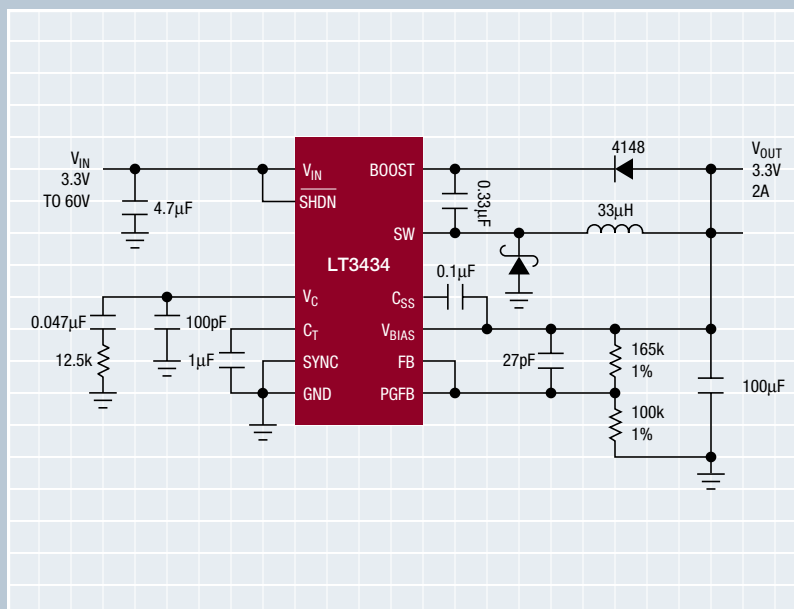
The chart above shows our DC/DC converters for either 12V/24V or 42V systems. See datasheets for more details.

LT3434:

60V Step-Down Switching Regulator with Only 100 μ A of Quiescent Current for “Always On” Applications

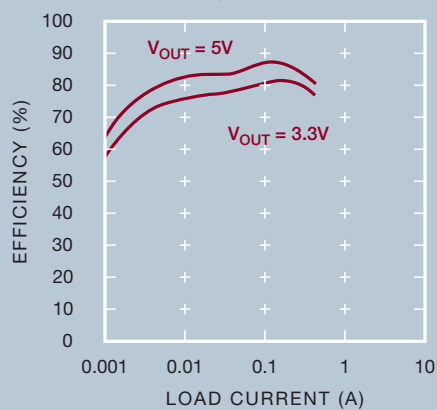
Benefits:

- Output Current to 2.75A
- 3.3V to 60V Input Voltage Capability to Withstand Cold Crank/Load Dump
- Efficiencies Up to 90%
- 200kHz Switching Frequency
- $I_Q \leq 100\mu$ A
- $I_{SD} < 1\mu$ A
- Compact, Thermally Efficient Footprint

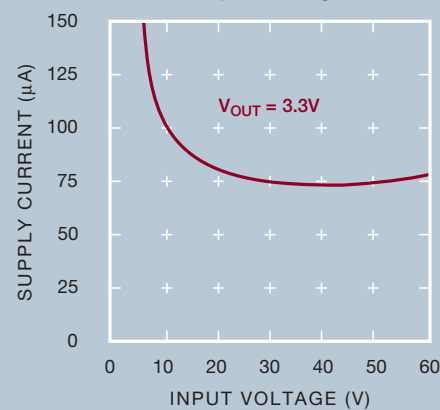


LT3434: Actual Size

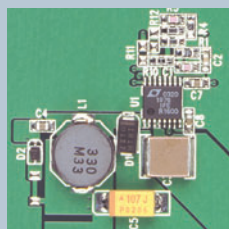
Efficiency vs Load Current



Supply Current vs Input Voltage



High Voltage, Low Quiescent Current Step-Down DC/DC Converters



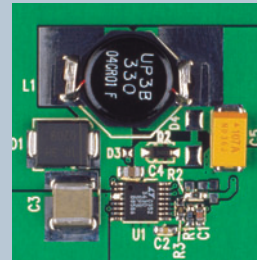
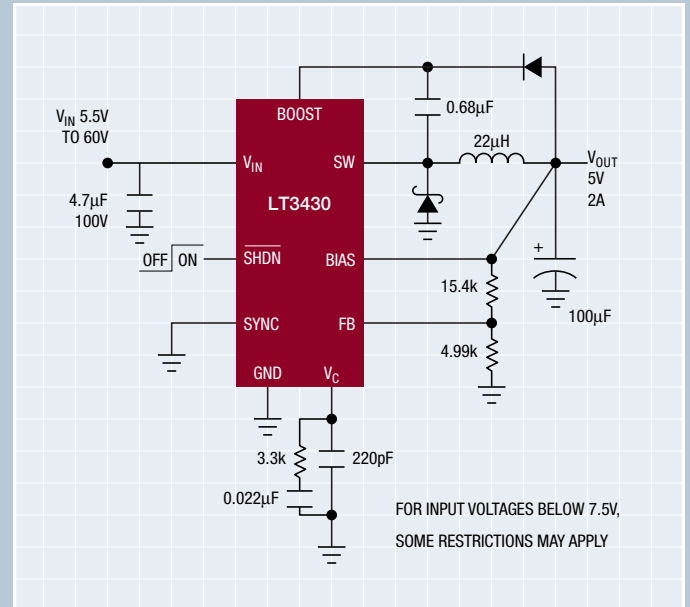
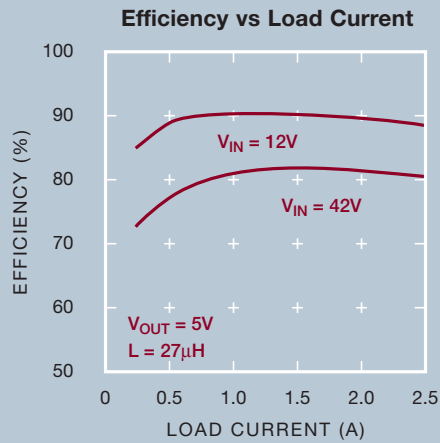
LT1976: Actual Size

Part No	Device Function	V_{IN} Range	I_{SW} (A)	Frequency	I_Q (μ A)	I_{SD} (μ A)	Package
LT3434	Step-Down Regulator	3.3 to 60V	3.0	200kHz	100	<1	TSSOP-16E
LT3435	Step-Down Regulator	3.3 to 60V	3.0	500kHz	100	<1	TSSOP-16E
LT1976	Step-Down Regulator	3.3 to 60V	1.5	200kHz	100	<1	TSSOP-16E
LT1977	Step-Down Regulator	3.3 to 60V	1.5	500kHz	100	<1	TSSOP-16E
LT3433	Buck-Boost Regulator	4 to 60V	0.5	200kHz	100	<1	TSSOP-16E
LT3437	Step-Down Regulator	3.3 to 80V	0.5	200kHz	80	<1	DFN
LT3438	Step-Down Regulator	3.3 to 80V	0.5	500kHz	80	<1	DFN
LT1934/-1	Step-Down Regulator	3.3 to 34V	0.4	COT*	12	<1	ThinSOT™
LT3470	Step-Down Regulator	4.0 to 40V	0.33	hyst.	26	<1	ThinSOT
LT3010	High Voltage LDO	3.5 to 80V	0.2	n/a	30	<1	MS8E
LT3014	High Voltage LDO	3.0 to 80V	0.07	n/a	7	<1	DFN, ThinSOT

* Constant Off Time

LT3430:**60V, 3A (I_{SW}), 200kHz Step-Down
Switching Regulator in TSSOP-16E****Benefits:**

- Output Current to 2.75A
- 5.5V to 60V Input Voltage Capability
- Efficiencies Up to 90%
- 200kHz Switching Frequency
- $I_Q=2.5mA$
- Compact, Thermally Efficient Footprint



LT3430: Actual Size

High Voltage, High Efficiency Step-Down DC/DC Converters

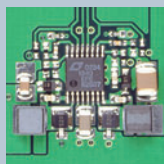
Part No	Device Function	V_{IN} Range (V)	I_{SW} (A)	Frequency	I_Q	I_{SD} (μA)	Package
LT1676	Step-Down Regulator	7.4 to 60	0.6	100kHz	3.2mA	<30	N8/SO-8
LT1172/HV	Step-Down Regulator	3 to 40/60	1.3	100kHz	6mA	<50	DD, TO-220, SO-8, SO-16
LT1956	Step-Down Regulator	5.5 to 60	1.5	500kHz	2.5mA	<25	TSSOP-16/E
LT1766	Step-Down Regulator	5.5 to 60	1.5	200kHz	2.5mA	<25	TSSOP-16/E
LT1076/HV	Step-Down Regulator	7.3 to 45/64	2.0	100kHz	8.5mA	<140	DD, TO-220
LT1171/HV	Step-Down Regulator	3 to 40/60	2.5	100kHz	6mA	<50	DD, TO-220
LT3431	Step-Down Regulator	5.5 to 60	3.0	500kHz	2.5mA	<30	TSSOP-16E
LT3430	Step-Down Regulator	5.5 to 60	3.0	200kHz	2.5mA	<30	TSSOP-16E
LT1071/HV	Step-Down Regulator	3 to 40/60	5.0	40kHz	6mA	<50	TO-220
LT1170/HV	Step-Down Regulator	3 to 40/60	5.0	100kHz	6mA	<50	DD, TO-220
LT1070/HV	Step-Down Regulator	3 to 40/60	5.0	40kHz	6mA	<50	TO-220
LT1074/HV	Step-Down Regulator	7.3 to 64	5.5	100kHz	8.5mA	<10	DD, TO-220
LT1339	Step-Down Controller	9 to 60	Ext FET	150kHz	2.2 μA	<150	SO-16, N20
LTC4440	High Side Gate Driver	6.5 to 60	Ext FET	n/a	250 μA	<25	ThinSOT
LTC3703	Step-Down Controller	5.5 to 100	Ext FET	100-600kHz	n/a	<50	SSOP-16, SSOP-28

LT1940:

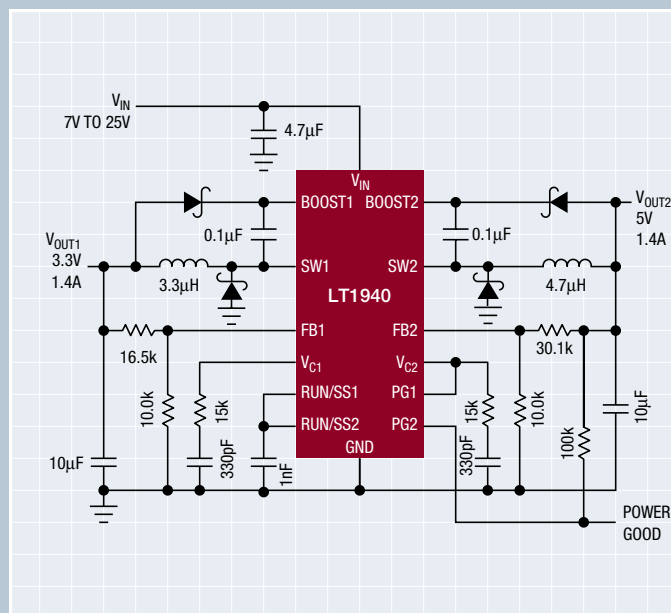
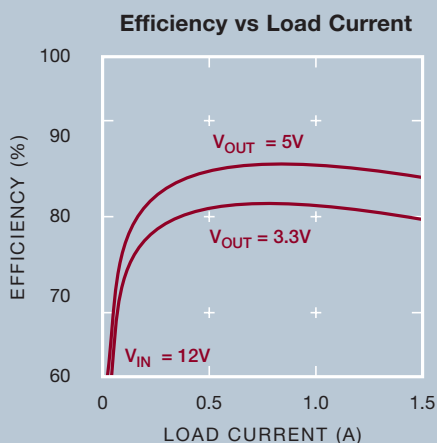
Dual 25V, 1.4A, 1.1MHz Step-Down Switching Regulator

Benefits:

- Output Current to 1.4A per Channel
- 25V Input Capability
- Efficiencies Up to 85%
- 1.1MHz Switching Frequency
- Anti-Phase Switching Reduces Ripple
- Independent Shutdown/Soft-Start Pins
- Independent PowerGood Indicators
- $I_{SD} < 1\mu A$
- Compact, Thermally Efficient Footprint



LT1940: Actual Size

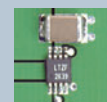
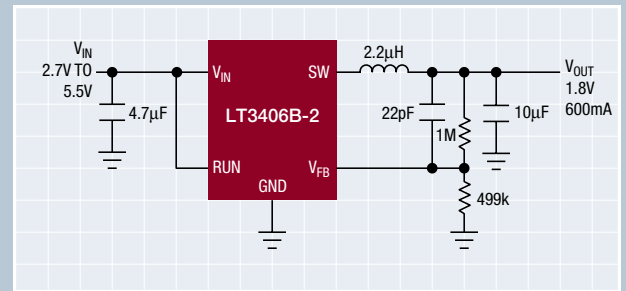
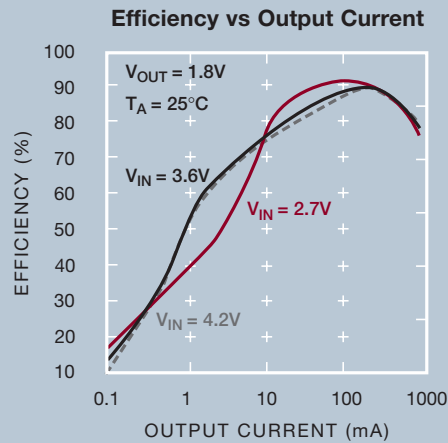


Medium Voltage, High Efficiency Step-Down

Part No	Device Function	V_{IN} Range (V)	I_{SW} (A)	Frequency	I_Q	I_{SD} (μA)	Package
LT1934/-1	Step-Down Regulator	3.3 to 34	0.4	COT	12 μA	<1	ThinSOT
LT1776	Step-Down Regulator	7.4 to 40	0.7	200kHz	3.2mA	<30	SO-8
LT1933	Step-Down Regulator	3.6 to 36	0.75	500kHz	1.6mA	<2	ThinSOT
LT1940	Dual Step-Down Regulator	3.6 to 25	1.4 X 2	1.1MHz	3.8mA	<1	TSSOP-16E
LT1777	Step-Down Regulator	7 to 48	1.5	200kHz	620 μA	<12	SO-16
LT1767	Step-Down Regulator	2.7 to 25	1.5	1.25MHz	1mA	<6	MS8E
LT1376/HV	Step-Down Regulator	2.7 to 25/30	1.5	500kHz	2.5mA	<20	SO-8, SO-16
LT1765	Step-Down Regulator	3 to 25	3.0	1.25MHz	1mA	<15	SO-8, TSSOP16E
LT1374/HV	Step-Down Regulator	5 to 25/32	4.5	500kHz	2.5mA	<20	SO-8, TO-220, DD, TSSOP-16E
LT1270	Step-Down Regulator	3.5 to 30	8.0	60kHz	7mA	<100	TO-220
LT1270A	Step-Down Regulator	3.5 to 30	10.0	60kHz	7mA	<100	TO-220
LTC1624	Step-Down Controller	3.5 to 36	Ext FET	200kHz	550 μA	<16	SO-8
LTC1625	Step-Down Controller	3.7 to 36	Ext FET	150kHz	500 μA	<30	SSOP-16
LTC1628	2-Phase Step-Down Controller	3.5 to 36	Ext FET	300kHz	350 μA	<20	SSOP-28, QFN
LTC3728	Dual 2-Phase Step-Down Controller	4.5 to 36	Ext FET	550kHz	450 μA	<20	SSOP-28, QFN
LTC1436	Step-Down Controller	3.5 to 36	Ext FET	240kHz	280 μA	<25	SSOP-28, SSOP-24
LTC1439	Dual Step-Down Controller	3.5 to 36	Ext FET	400kHz	280 μA	<30	SSOP-28, SSOP-36
LTC3731	3-Phase Step-Down Controller	4.5 to 28	Ext FET	600kHz	3.5mA	<50	SSOP-36, QFN
LTC1735	Step-Down Controller	3.5 to 36	Ext FET	500kHz	450 μA	<25	SO-16, SSOP-16, TSSOP-20
LTC1159	Step-Down Controller	4 to 40	Ext FET	250kHz	200 μA	<20	SSOP-20, SO-16
LTC3728L	Dual 2-Phase Step-Down Controller	4.5 to 28	Ext FET	550kHz	450 μA	<20	SSOP-28, QFN
LTC3707	2-Phase Step-Down Controller	4.5 to 28	Ext FET	300kHz	350 μA	<20	SSOP-28, QFN
LTC3727	Step-Down Controller	4 to 36	Ext FET	550kHz	670 μA	<20	SSOP-28, QFN

LTC3406B-2:**2.25 MHz, 600mA Synchronous Step-Down DC/DC Converter in ThinSOT****Benefits:**

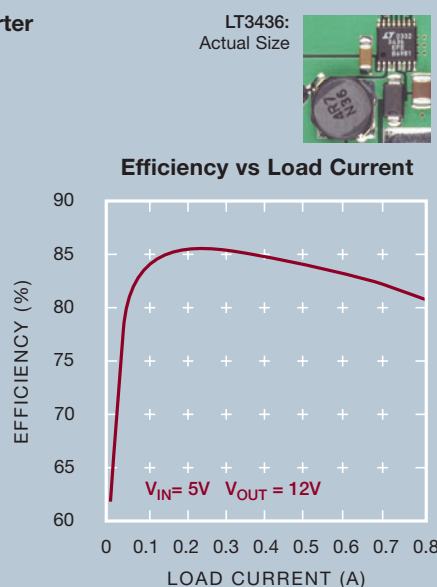
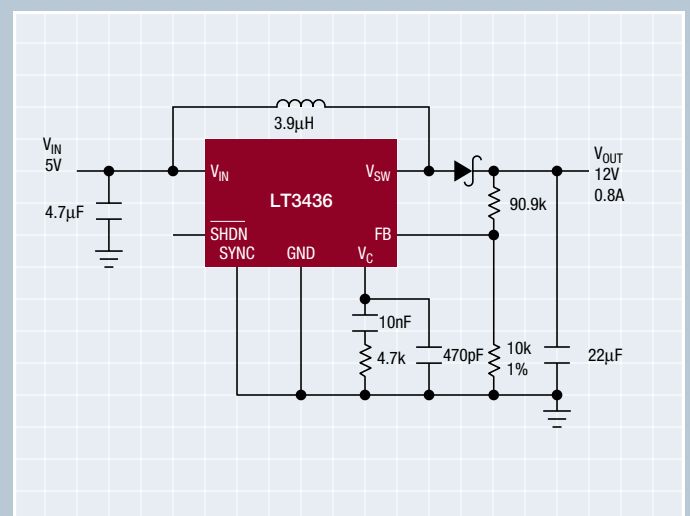
- High Efficiency-Up to 96%
- V_{IN} : 2.25V to 5.5V
- Low I_Q : 350 μ A
- $I_{SD} < 1\mu$ A
- Low Dropout Operation: 100% Duty Cycle
- No Schottky Diode Required
- Current Mode Operation
- Low Profile/Tiny Solution Footprint

LTC3406B-2:
Actual Size

Part No	V_{IN} (V)	V_{OUT} (V)	I_{OUT} (A)	Frequency	I_Q (μ A)	I_{SD} (μ A)	Package
LTC3405A	2.5 to 5.5	0.8 to 5.5	0.30	1.5MHz	20	<1	ThinSOT
LTC3404	2.5 to 5.5	0.8 to 5.5	0.60	1.4MHz	10	<1	MS8
LTC3406/B	2.5 to 5.5	0.6 to 5.5	0.60	1.5MHz	20	<1	ThinSOT
LTC3406B-2	2.5 to 5.5	0.6 to 5.5	0.60	2.25MHz	20	<1	ThinSOT
LTC3407	2.5 to 5.5	0.6 to 5.5	0.6 X 2	1.5MHz	40	<1	MS10, DFN
LTC3407-2	2.5 to 5.5	0.6 to 5.5	0.8 X 2	2.25MHz	40	<1	MS10, DFN
LTC3411	2.5 to 5.5	0.8 to 5.5	1.25	4MHz	60	<1	TSSOP-16E, DFN
LTC3412	2.5 to 5.5	0.8 to 5.5	2.50	4MHz	60	<1	TSSOP-16E
LTC3414	2.25 to 5.5	0.8 to 5.5	4.00	4MHz	64	<1	TSSOP-20E
LTC3416	2.25 to 5.5	0.8 to 5.5	4.0	4MHz	300	<1	TSSOP-20E
LTC3418	2.25 to 5.5	0.8 to 5.5	8.0	4MHz	300	<1	QFN
LTC1772	2.5 to 9.8	0.8 to 9.8	Ext FETs	550kHz	270	<1	ThinSOT
LTC1622	2 to 10	0.8 to 10	Ext FETs	550kHz	350	<1	MS8

LT3436: High Efficiency Step-Up Converters (including LCD Biasing)**3A, 35V, 800kHz Boost Converter in TSSOP-16E****Benefits:**

- Integrated 3A, 35V Switch
- 3V to 25V Input Capability
- Efficiencies Up to 85%
- 800kHz Switching Frequency
- Constant Current Limit for all Duty Cycles
- $I_Q < 0.9mA$, $I_{SD} < 1\mu A$
- Compact, Thermally Efficient Footprint

LT3436:
Actual Size

High Efficiency Step-Up Converters (including LCD Biasing)

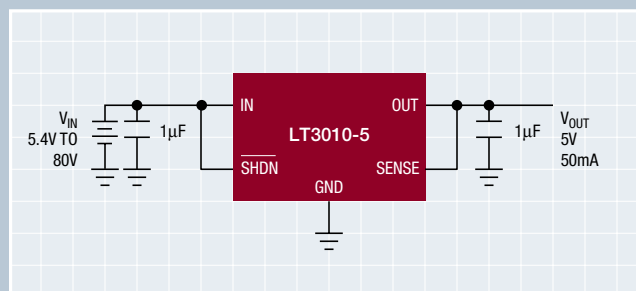
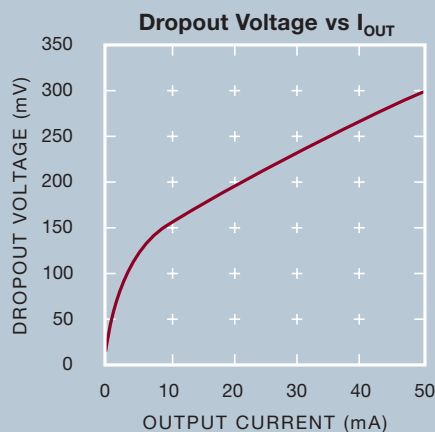
Part No	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} Max (V)	I _{SW} (A)	Frequency	I _Q	I _{SD} (μA)	Package
LT3464	2.3	10	34	0.085	COT	25μA	<1	ThinSOT
LT1615-1	1	15	36	0.10	COT	20μA	<1	ThinSOT
LT3461/A	2.5	16	38	0.30	1.3/3MHz	2.8mA	<1	ThinSOT
LT1615	1.2	15	36	0.30	COT	20μA	<1	ThinSOT
LT3460	2.5	16	36	0.32	1.3MHz	2mA	<1	SC70, ThinSOT
LT1945	1	15	+36	0.35	COT	20μA	<1	MS10
LT1613	1	10	36	0.55	1.4MHz	3 mA	<1	ThinSOT
LTC3400/B	0.85	5	6	0.60	1.2MHz	19μA	<1	ThinSOT
LTC3401	0.5	5	6	1.00	3MHz	38μA	<1	MS10
LT1930/A	2.6	16	16	1.00	1.2/2.2MHz	4.2/5.5mA	<1	ThinSOT
LT3467	2.4	16	40	1.10	1.3MHz	1mA	<1	ThinSOT
LT1618	1.6	18	36	1.50	1.4MHz	1.8mA	<1	MS10
LT1961	3	25	34	1.50	1.25MHz	0.9mA	<6	MS8E
LT1935	2.3	16	40	2.00	1.2MHz	3mA	<1	ThinSOT
LTC3402	0.5	5	6	2.00	3MHz	38μA	<1	MS10
LTC3424	0.5	5	6	2.00	3MHz	38μA	<1	MS10
LTC3421	0.5	4.5	5.25	3.00	3MHz	12μA	<1	QFN-24
LT3436	3	25	34	3.00	800kHz	0.9mA	<1	TSSOP-16E
LTC3425	0.5	4.5	5.25	5.00	8MHz	12μA	<1	QFN-32
LT1370HV	2.7	30	42	6.00	500kHz	4.5mA	<12	DD, TO220

LT3010:

80V, 50mA, Micropower LDO in MS8

Benefits:

- 3V to 80V Input Capability
- 300mV Dropout Voltage
- Reverse Battery Protection
- I_Q < 30μA
- I_{SD} < 1μA
- Stable with Ceramic Capacitors
- Compact, Thermally Efficient MS8E



Low Noise LDOs: Negative Regulators

Part No	I _{OUT}	Min V _{IN} (V)	Max V _{IN} (V)	Reference Voltage (V)	Dropout Voltage (V)	Output Noise (μV _{RMS})	I _Q	I _{SD} (μA)	Output Voltage (V)	Package
LT1964	200mA	-1.9	-20	-1.21	0.34	30	30μA	<3	Adj, -5	ThinSOT
LT1175	500mA	-4.3	-20	-3.8	0.50	n/a	45μA	<10	Adj, -5	DD, SOT-223, SO-8, PDIP8
LT1185	3A	-4.2	-35	-2.40	0.80	n/a	2.5mA	<1	Adj	T5

Low Noise LDOs: Positive Regulators

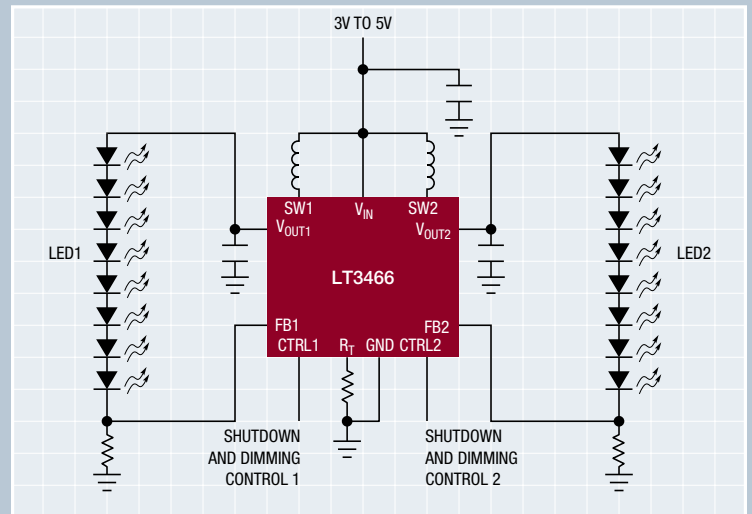
Part No	I_{OUT}	Min V_{IN} (V)	Max V_{IN} (V)	Reference Voltage (V)	Dropout Voltage (V)	Noise (μV_{RMS})	I_Q	I_{SD} (μA)	Output Voltage (V)	Package
LT3010	50mA	1.5	80	1.28	0.30	30	30 μA	<1	Adj, 5	ThinSOT
LT1761	100mA	1.8	20	1.22	0.30	20	20 μA	<1	Adj, 1.5, 1.8, 2, 2.5, 2.8, 3, 3.3, 5	ThinSOT
LT3023	Dual 100mA	1.8	20	1.22	0.30	20	20 μA /LDO	<1	Adj	DFN, MS10E
LT3027	Dual 100mA	1.8	20	1.22	0.30	20	20 μA /LDO	<1	Adj	DFN, MS10E
LT1762	150mA	1.8	20	1.22	0.30	20	25 μA	<1	Adj, 2.5, 3, 3.3, 5	MS8
LTC1844	150mA	1.6	6.5	1.25	0.11	30	40 μA	<1	Adj, 1.5, 1.8, 2.5, 2.8, 3.3	ThinSOT
LT1962	300mA	1.8	20	1.22	0.27	20	30 μA	<1	Adj, 1.5, 1.8, 2.5, 3, 3.3, 5	MS8
LT1763	500mA	1.8	20	1.22	0.30	20	30 μA	<1	Adj, 1.5, 1.8, 2.5, 3, 3.3, 5	SO-8
LT3024	Dual 100/500mA	1.8	20	1.22	0.30	20	30 μA /LDO	<1	Adj	DFN, TSSOP-16E
LT3028	Dual 100/500mA	1.8	20	1.22	0.30	20	30 μA /LDO	<1	Adj	DFN, TSSOP-16E
LT1963/A	1.5A	2.1	20	1.21	0.34	40	1mA	<1	Adj, 1.5, 1.8, 2.5, 3.3	DD, T5, SOT-223, SO-8
LT1764/A	3A	2.7	20	1.21	0.34	40	1mA	<1	Adj, 1.8, 2.5, 3.3	DD, T5

LT3466:

Dual Full Function White LED Step-Up Converter with Built-In Schottky Diodes in a 3x3mm DFN Package

Benefits:

- Drives Up to 20 White LEDs
- 2.7V to 24V Input Capability
- Two Independent Boost Converters Capable of Driving Asymmetric LED Strings
- Internal Schottky Diodes
- Internal Soft Start
- Open LED Protection (42V Max V_{OUT})
- 2MHz Fixed Frequency Operation

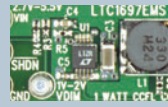


High Efficiency LED Drivers

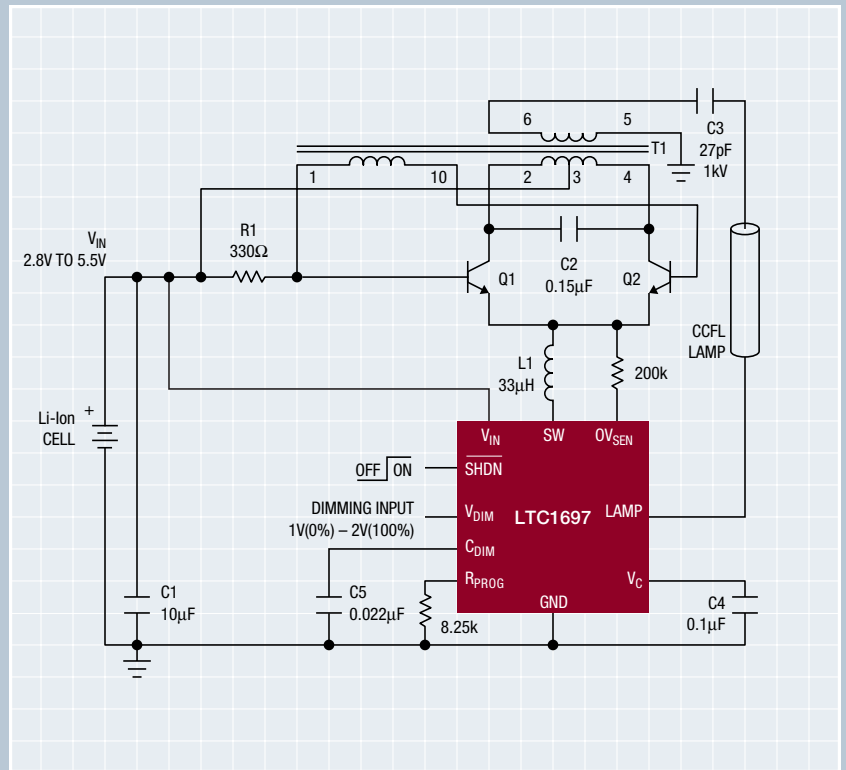
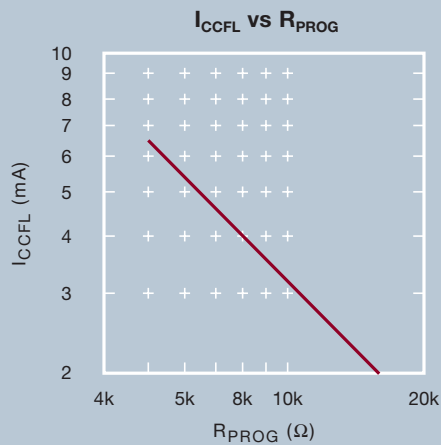
Part No	Min V_{IN} (V)	Max V_{IN} (V)	Max V_{OUT}	Max Switch Current (mA)	Max No. White LEDs	Dimming Control	Frequency	I_Q	I_{SD} (μA)	Package
LT1937	2.5	10.0	34	340	4	PWM	1.2MHz	1.9mA	<1	ThinSOT, SC70
LT3465/A	2.7	16.0	30	400	6	PWM	1.2/2.7MHz	2mA	<1	ThinSOT
LT1615	1.2	15.0	34	300	8	PWM	PFM	20 μA	<1	ThinSOT
LT1932	1.0	10.0	34	400	8	PWM	1.2MHz	1.2mA	<1	ThinSOT
LT3466	2.7	24.0	40	2 X 400	2 X 10	PWM	2.0MHz	5.2mA	<1	DFN
LT1618	1.6	18.0	34	1,500	20	PWM	1.4MHz	1.8mA	<1	MS10

LTC1697:**High Efficiency Low Power
1W CCFL Switching Regulator****Benefits:**

- 2.8V to 5.5V Input Capability
- Synchronous Buck for High Efficiency
- Accurate Lamp Current Maximizes Lamp Lifetime
- Internal or External PWM Dimming
- MS10E Package



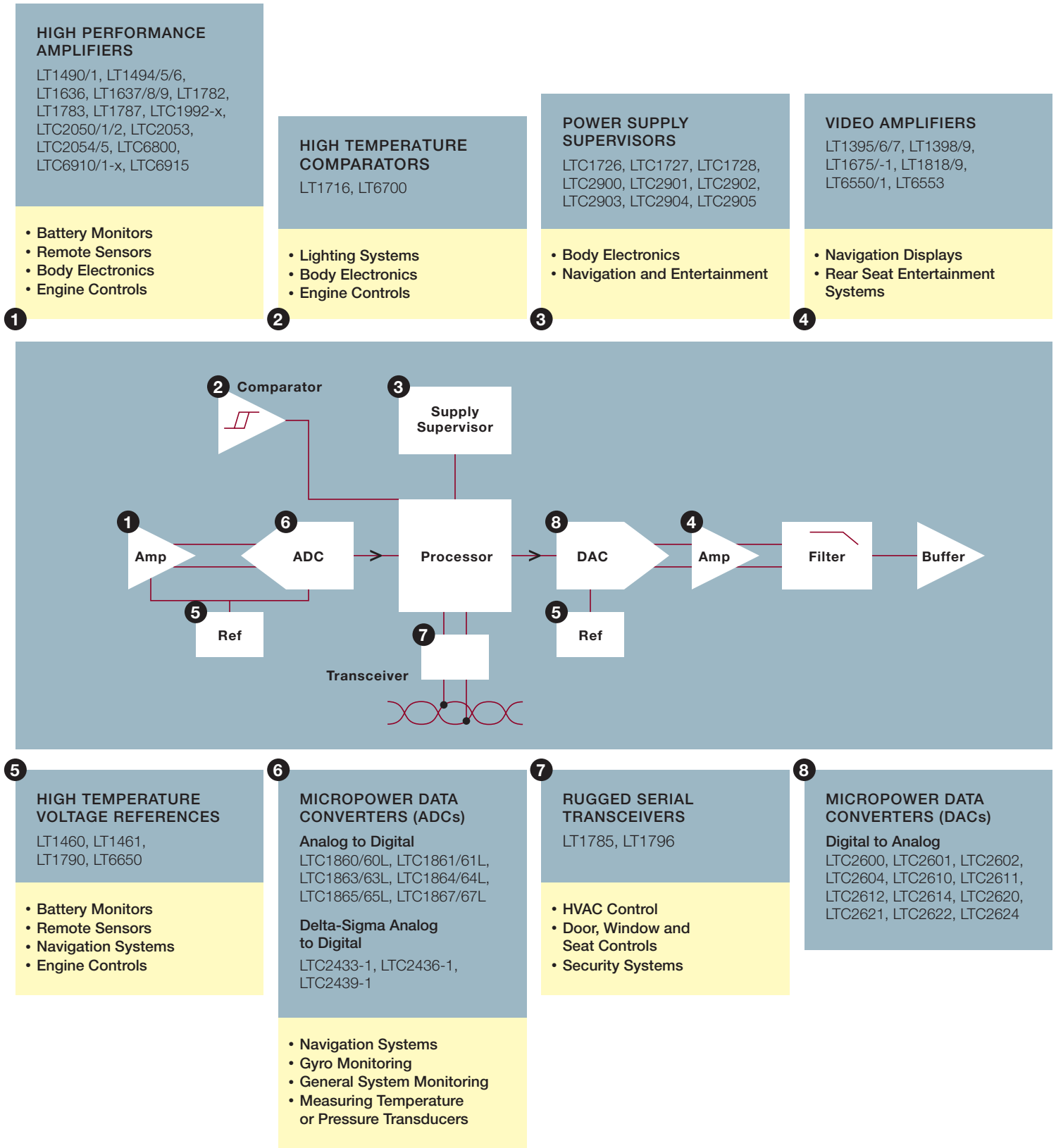
LTC1697:
Actual Size

**CCFL/LED Backlight and LCD Biasing**

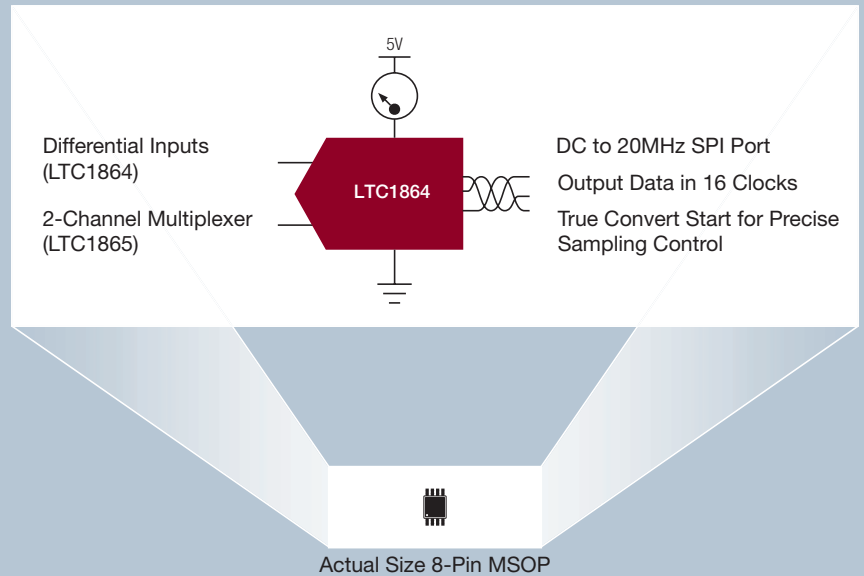
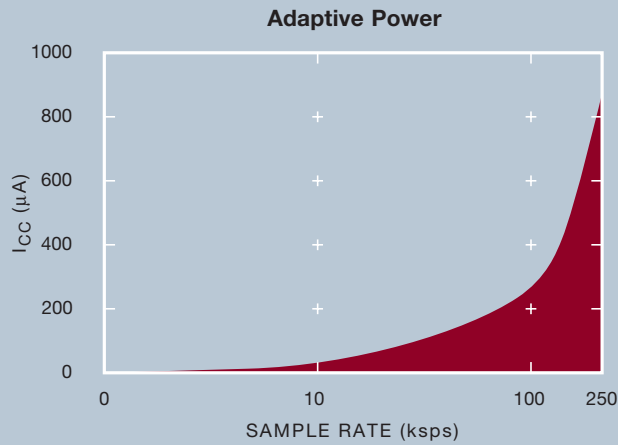
Part No	Min V_{IN} (V)	Max V_{IN} (V)	Max V_{OUT}	Max Switch Current (A)	Frequency	I_Q	I_{SD} (μA)	Package
LT1945	1.2	15	±34	0.25	Constant Off-Time	20μA	<1	MS10
LT3461/A	2.5	16	38	0.30	1.3/3MHz	2.8mA	<1	ThinSOT
LT1173	2.0	30	50	0.40	23kHz	110μA	n/a	N8, S0-8
LT1942	2.6	16	44	0.55	1MHz	7mA	<1	QFN
LT1307/B	1.0	12	28	0.60	600kHz	50μA/1.1mA	<1	MS8, N8, S0-8
LT1317/B	1.5	12	28	0.66	600kHz	100μA/4.8mA	<30/28	MS8, S0-8
LT1300	1.8	10	20	0.75	155kHz	120μA	<10	N8, S0-8
LT1304	1.5	8	25	0.80	300kHz	120μA	<10	S0-8
LT1186F	3.5	30	60	0.90	200kHz	6mA	<5	S0-16
LT1786F	3.5	30	60	0.90	100kHz	6mA	<5	S0-16
LTC1697	2.8	5.5	60	1.00	300kHz	440μA	<1	MS10
LT1182/83	3	30	60	1.2/.625	200kHz	9mA	<3	S0-16
LT3471	2.4	16	40	1.30	1.2 MHz	4mA	<1	DFN
LT1372/77	2.7	25	42	1.50	500kHz/1MHz	4mA	<12	S0-8
LT1308A/B	1.0	10	30	2.00	600kHz	100μA	<5	S0-8
LT3436	3	25	34	3.00	800kHz	0.9mA	<1	TSSOP-16E
LT3479	2.5	24	40	3.00	3.5MHz	5mA	<1	DFN, TSSOP-16E
LT1371/HV	2.7	25	42	3.00	500kHz	40mA	<12	SO-20, DD
LT1768	8	24	28	Ext FETs	350kHz	7mA	<65	SSOP-16

Automotive Signal Chain Products

Linear Technology's signal chain ICs are designed, manufactured and tested to thrive in harsh under-hood environments. Automotive-grade data converters, amplifiers, monitors, voltage references, filters and oscillators offer features such as Over-The-Top® capability that allows device inputs to exceed the supply rails. These devices ensure guaranteed -40°C to 125°C specifications, low quiescent current, reverse supply protection, and reliable small footprint packages.



MICROPOWER DATA CONVERTERS



Analog to Digital Converters

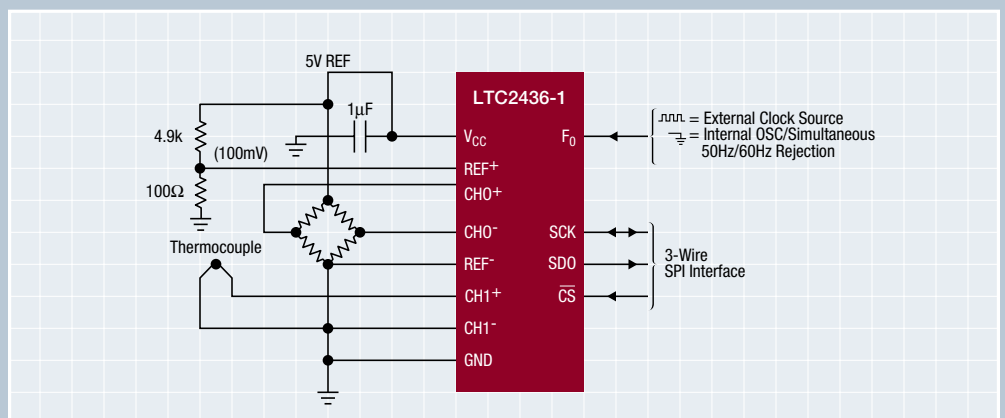
- Ideal for Navigation Systems, Gyro Monitoring and General System Monitoring
- Single 5V (or 3.3V, L-Version) Supply

Part Number	Resolution	Channels	Speed		Power		Package
LTC1864 (L)	16	1	250ksps	(150ksps)	4.25mW	(1.22mW)	MSOP-8
LTC1865 (L)	16	2	250ksps	(150ksps)	4.25mW	(1.22mW)	MSOP-10
LTC1867 (L)	16	8	200ksps	(175ksps)	6mW	(2.25mW)	SSOP-16
LTC1860 (L)	12	1	250ksps	(150ksps)	4.25mW	(1.22mW)	MSOP-8
LTC1861 (L)	12	2	250ksps	(150ksps)	4.25mW	(1.22mW)	MSOP-10
LTC1863 (L)	12	8	200ksps	(175ksps)	6mW	(2.25mW)	SSOP-16

Delta-Sigma Analog to Digital Converters

- Simple and Extremely Accurate for Measuring Temperature or Pressure Transducers

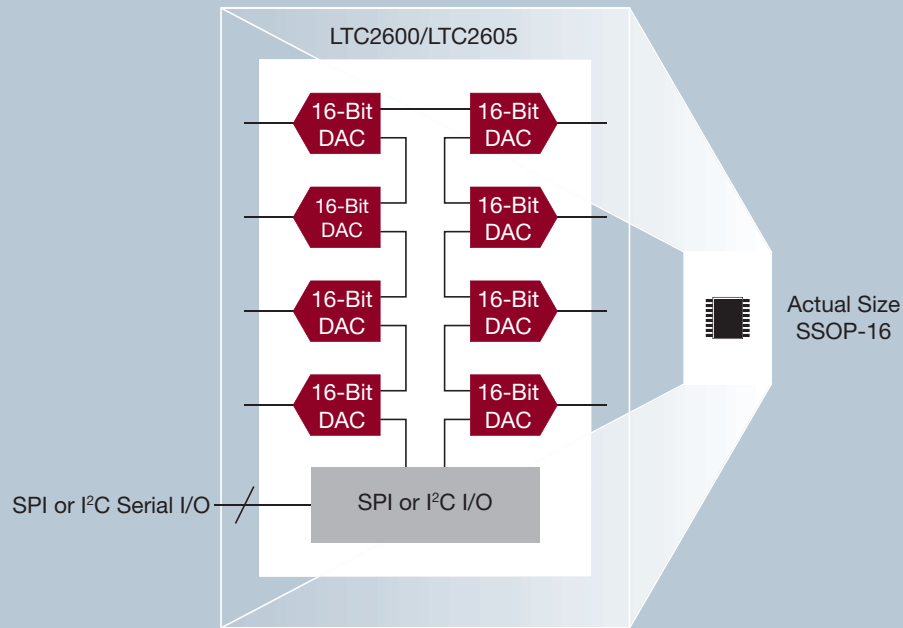
Part Number	Resolution	Channels	RMS Noise	Total Unadjusted Error	Package
LTC2433-1	16-Bits	1	1.45μV	0.2LSB	MSOP-10
LTC2436-1	16-Bits	2	800nV	0.2LSB	SSOP-16
LTC2439-1	16-Bits	8/16	1μV	0.2LSB	SSOP-28



Micropower Digital to Analog Converters

- Guaranteed Monotonic Over Temperature
- 2.5V to 5.5V Operation
- Low Power and Tiny Packages
- SPI or I²C Versions

Resolution	Single I ² C		Dual I ² C		Quad I ² C		Octal I ² C	
	SPI	I ² C	SPI	I ² C	SPI	I ² C	SPI	I ² C
16-Bit	LTC2601	LTC2606	LTC2602	LTC2607	LTC2604	LTC2609	LTC2600	LTC2605
14-Bit	LTC2611	LTC2616	LTC2612	LTC2617	LTC2614	LTC2619	LTC2610	LTC2615
12-Bit	LTC2621	LTC2626	LTC2622	LTC2627	LTC2624	LTC2629	LTC2620	LTC2625



POWER SUPPLY SUPERVISORS

- Programmable Threshold Combinations of 5V, 3.3V, 3V, 2.5V, 1.8V, 1.5V, $\pm$ ADJ

Part Number	# of Supplies	Watchdog	PWRGD	RESET Disable for Margining	Package
LTC2900	4				MSOP-10, DFN-10
LTC2901	4	YES	YES		SSOP-16
LTC2902	4		YES	YES	SSOP-16
LTC2903	4				SOT-23-6
LTC1726	3	YES			SO-8, MSOP-8
LTC1727	3		YES		SO-8, MSOP-8
LTC1728	3				SOT-23-5
LTC2904	2				SOT-23-8, DFN-8
LTC2905	2				SOT-23-8, DFN-8

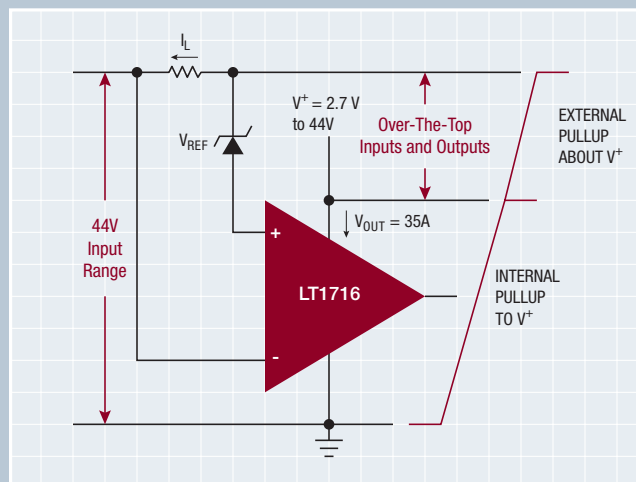
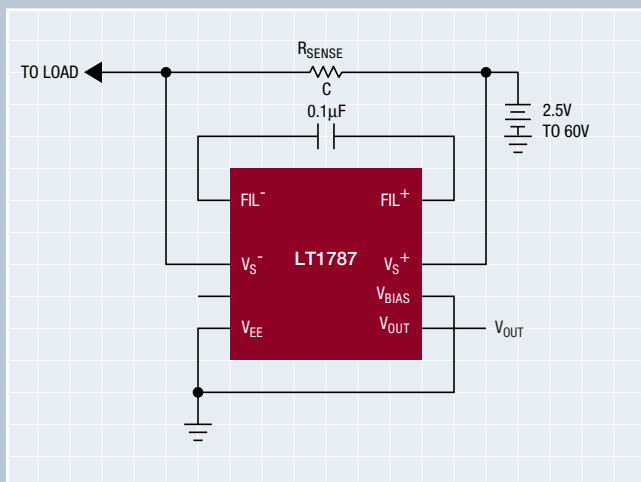
RUGGED SERIAL INTERFACE TRANSCEIVERS

Part Number	Standard	Bus Voltage Protection	ESD Protection	Comments
LT1785	RS485	$\pm$ 60V	$\pm$ 15kV	Standard pinout, half-duplex
LT1796	CAN	$\pm$ 60V	$\pm$ 15kV	Standard SO-8 pinout, 125kbaud

HIGH PERFORMANCE AMPLIFIERS

-40°C to 125°C guaranteed specifications

Part No.	Channels	Bandwidth	V _{SUPPLY}	I _{SUPPLY}	V _{OS}	Reverse Battery	Features
LT1490A/1A	2/4	60kHz	2.5V - 44V	90μA	2.5mV	Yes	Rail-to-Rail, Over-The-Top
LT1494/5/6	1/2/4	2.7kHz	2.2V - 36V	5μA	875μV	Yes	Rail-to-Rail, Over-The-Top
LT1636	1	60kHz	2.5V - 44V	75μA	325μV	Yes	Rail-to-Rail, Over-The-Top
LT1637/8/9	1/2/4	350kHz	2.5V - 44V	400μA	3mV	Yes	Rail-to-Rail, Over-The-Top
LT1782	1	65kHz	2.7V - 18V	100μA	3mV	Yes	Rail-to-Rail, Over-The-Top
LT1783	1	400kHz	2.7V - 18V	600μA	3mV	Yes	Rail-to-Rail, Over-The-Top
LT1787	1	N/A	2.5V - 65V	140μA	400μV	No	Bi-directional Current Sense Amp
LTC1992-x	1	1.9MHz	2.7V - 11V	1.5mA	4mV	No	Differential In/Out Amp
LTC2050/1/2	1/2/4	3MHz	2.7V - 12V	1.2mA	3μV	No	Zero-drift
LTC2053	1	200kHz	2.7V - 11V	1.1mA	10μV	No	Instrumentation Amp, Zero-drift
LTC2054/5	1/2	500kHz	2.7V - 12V	155μA	3μA	No	Zero-drift, Ultralow Power
LTC6800	1	200kHz	2.7V - 5.5V	1.3mA	100μV	No	Instrumentation Amp, Zero-drift
LTC6910/1-x	1/2	5MHz	2.7V - 11V	3mA	12mV	No	Programmable Gain Amplifier
LTC6915	1	200kHz	2.7V - 11V	1.5mA	10μV	No	Programmable Instrumentation Amp



HIGH TEMPERATURE COMPARATORS

-40°C to 125°C guaranteed specifications

Part No.	Channels	Prop Delay	Reference	V _{SUPPLY}	I _{SUPPLY}	Features
LT1716	1	9μS	No	2.7V - 44V	70μA	Over-The-Top with 44V inputs
LT6700	2	18μS	400mV	1.4V - 18V	16μA	Over-The-Top, Open Collector Outputs

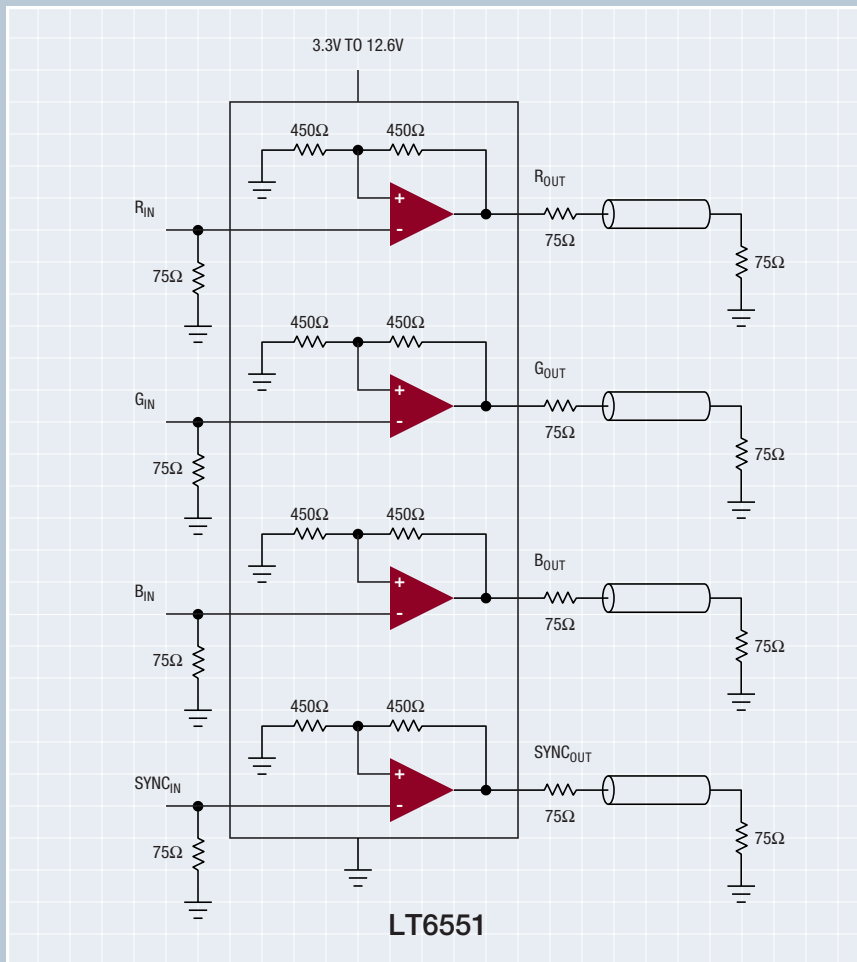
HIGH TEMPERATURE VOLTAGE REFERENCES

-40°C to 125°C guaranteed specifications

Part No.	V _{OUT} (V)	Temp Coeff	Initial Accuracy	V _{SUPPLY}	I _{SUPPLY}	Reverse Battery	Features
LT1790	1.25/2.048/2.5/ 3/3.3/4.096/5	10ppm/°C	0.18%	2.5V - 20V	75μA	No	Precision micropower, ThinSOT
LT1461	2.5/3/3.3/ 4.096/5	20ppm/°C	0.15%	2.8V - 20V	70μA	No	Low dropout, shutdown
LT1460	2.5/5	50ppm/°C	0.20%	3.4V - 30V	165μA	Yes	No output capacitor required
LT6650	0.4 to 18	30ppm/°C	0.5%	1.4V - 18V	11μA	No	Built-in buffer amp

VIDEO AMPLIFIERS

- Navigation displays
- Rear seat entertainment systems



Selected Video Amplifiers

Part No.	Channels	Slew Rate	Bandwidth	V _{SUPPLY}	I _{SUPPLY}	Features
LT6553/4	3	2500V/μS	650MHz	4.5V - 13.2V	11mA	Fixed Gain of 2 or 1, -85dB distortion
LT1818/9	1/2	2500V/μS	400MHz	4V - 12.6V	10mA	Low Noise, -85dB distortion
LT1675/-1	1/3	1100V/μS	250MHz	8V - 12.6V	14mA	2:1 Multiplexer, Fixed Gain of 2
LT1398/9	2/3	800V/μS	300MHz	4V - 15.5V	6.5mA	0.1dB Gain Flatness to 150 MHz
LT1395/6/7	1/2/4	800V/μS	400MHz	4V - 12.6V	6.5mA	Current Feedback, 80mA output
LT6550/1	3/4	600V/μS	90MHz	3V - 12.6V	10.5mA	Fixed Gain of 2, Operates on 3.3V
LT6552	1	600V/μS	75MHz	3V - 12.6V	16.5mA	Difference Amp, Rail-to-Rail Output
LT6205/6/7	1/2/4	450V/μS	100MHz	2.7V - 12.6V	5mA	Low Cost, Rail-to-Rail Output

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