

Part No.	Supply Voltage (V)		Output Voltage (V)	Current Function (A)			Control Mode A:AOT, C:COT, F:PFM, S:PSM, W:PWM	Freq. (KHz)	Description	Package
	min.	max.		Internal Switch	External Switch	I _Q				
				I _{SW} Limit	I _{OUT}					
Step Up Series										
AIC1628	4	20	V _{IN} ~ 4.5x V _{IN}		0.3 (BJT)	100µA	S-F	90 - 250	High-Efficiency, Step-Up PFM-PSM DC/DC Controller	SOP-8
AIC1634	2.6	10	V _{IN} ~ 30V	0.5		100µA	W	1400	1.4MHz Current-Mode Step-Up PWM DC/DC Converter	SOT23-6
AIC1638	0.9	6	2.7/3.0/3.3/4.5/5.0		0.04~0.35	15µA	F	105	1-Cell, 3-Pin, Step-Up PFM DC/DC Converter	SOT89-3
AIC1639	0.9	6	3.3/5.0		0.5 (BJT)	18µA	F	105	1-Cell, 3-Pin, Step-Up PFM DC/DC Controller	SOT89-3
AIC1642	0.9	6	2.0/2.2/2.7/2.8/3.0/3.1/3.3/3.7/4.5/5.0		0.6	15µA	F	105	3-Pin One-Cell Step-Up PFM DC/DC Converter	SOT23-5, SOT23-5, SOT89-3, TSOT23-5
AIC1647	2.5	5.5	V _{IN} ~ 30V			70µA	W	1200	White LED Step-Up PWM Converter	SOT23-5
AIC1880	2.6	5.5	V _{IN} ~ 11V	1.6		180µA	W	640 - 1220	Low Noise, Step-Up PWM DC/DC Converter	MSOP-8
AIC1896	2.5	10	V _{IN} ~ 30V			100µA	W	1400	1.4MHz SOT23-6 Current-Mode Step-Up PWM DC/DC Converter	SOT23-6
AIC3402	0.75	5	2.0/2.2/2.7/2.8/3.0/3.3/5.0	0.5		3µA	S-W	800	Synchronous Step-Up DC/DC Converter	SC70-3, SC70-5, SOT23-3, SOT23-5
AIC3411	0.7	5	1.65 ~ 5.5V	0.4		7µA	S-C	-	SC70-6 Package Low IQ High Light Load Efficiency Synchronous Boost Converter	SC70-6
AIC3412	0.7	5	1.65 ~ 5.5V	0.48		12µA	S-C	-	Low No-Load Input Current Synchronous Constant Off Time/PSM Step-Up Converter	SOT23-6
AIC3413	0.9	5.5	2.7 ~ 5.25V	0.9		40µA	S-W	1200	400mA, 1.2MHz Synchronous Step-Up Converter	SOT23-6
AIC3415	0.9	5.5	2.7 ~ 5.25V	1.3		40µA	S-W	1200	700mA, 1.2MHz Synchronous Step-Up Converter	SOT23-6
AIC3417	0.9	5.5	2.5 ~ 5.5V	3.4	1	20µA	S-C	-	1.0A Synchronous Step-Up Converter	DFN-10 (3x3), SOP-8E
AIC3418	0.9	5.5	2.5 ~ 5.5V	4.5	1.5	20µA	S-C	-	1.5A Synchronous Step-Up Converter	DFN-10 (3x3), SOP-8E
AIC3420	0.9	5.5	2.5 ~ 5.5V	6.5	2.1	20µA	S-C	-	2.1A Synchronous Step-Up Converter	DFN-10 (3x3), SOP-8E
AIC3610	8	40				10µA	W	40 - 1000	40V Current Mode Boost Controller	MSOP-10
AIC3631	2.7	5.5	V _{IN} ~ 24V	0.1		30µA	F	-	0.1A PFM Mode Step-Up DC/DC Converter With True Shutdown	SOT23-6
AIC3632	2.7	5.5	V _{IN} ~ 24V	0.1		30µA	F	-	0.1A PFM Mode Step-Up DC/DC Converter With True Shutdown	SOT23-6
AIC3634	2.7	5.5	V _{IN} ~ 24V	0.48		60µA	F	-	0.48A PFM Mode Step-Up DC/DC Converter With True Shutdown	SOT23-6
AIC3643	2.5	5.5	V _{IN} ~ 22V	1.0		150µA	W	1200	Built-in OVP White LED Step-Up Converter	SOT23-6, TSOT23-6
LV Step Down Series										
AIC2140	2.2	5.5	1.8V ~ 3.3	0.6	0.3	0.7µA	A	2000	300mA Ultra Low Iq Step-Down DC/DC Converter with AOT Control	DFN-12 (2.4x2.4)
AIC2253	2.5	6	0.6V ~ V _{IN} -0.2	1.6	1.0	8µA	A	1500	1A, 1.5MHz AOT Synchronous Step-Down DC/DC Converter	TSOT23-8
AIC2258	2.5	6	0.6V ~ V _{IN} -0.2	1.6	1.0	17µA	A	1500	1A, 1.5MHz AOT Synchronous Step-Down DC/DC Converter	DFN-8 (2x1.5)
AIC2259	2.5	6	0.6V ~ V _{IN} -0.2	1.6	1.0	17µA	A	1500	1A, 1.5MHz AOT Synchronous Step-Down DC/DC Converter	TSOT23-8
AIC2262	2.5	6	0.6V ~ V _{IN} -0.2	3.4	2.0	17µA	A	1500	2A, 1.5MHz AOT Synchronous Step-Down DC/DC Converter	DFN-8 (2x1.5)
AIC2271	2.5	6	0.6V ~ V _{IN} -0.2	1.6	1.0	17µA	A	3000	1A, 3MHz AOT Synchronous Step-Down DC/DC Converter	TSOT23-8
AIC2304	2.5	5.5	0.6V ~ V _{IN} -0.3	1.6	1.0	65µA	W	1500	1A Synchronous PWM Step-Down DC/DC Converter	DFN-6 (2x2), SOT23-5
AIC2309	2.5	5.5	0.6V ~ V _{IN} -0.3	1.6	1.0/1.0	65µA	W	1500	1A Dual Synchronous PWM Step-Down DC/DC Converter	DFN-12 (3x3)
AIC2322	2.5	6	0.8V ~ V _{IN}	3.4	2.0	550µA	W	550/1100	2A 550k/1.1MHz Synchronous PWM Step-Down Converter	SOP-8
AIC2323	2.5	6	0.8V ~ V _{IN}	5.0	3.2	550µA	W	550/1100	3.2A 550k/1.1MHz Synchronous PWM Step-Down Converter	SOP-8E
AIC2324	2.5	6	0.8V ~ V _{IN}	6.4	4.0	250µA	W	550/1200	4A 550k/1.2MHz Synchronous PWM Step-Down Converter	DFN-12 (3x3), SOP-8E
AIC2354	2.5	5.5	0.6V ~ V _{IN} -0.3	1.6	1.0	65µA	S-W	1500	1A Synchronous PWM-PSM Step-Down DC/DC Converter	DFN-6 (2x2), SOT23-5
AIC2359	2.5	5.5	0.6V ~ V _{IN} -0.3	1.6	1.0/1.0	65µA	W	1500	1A Dual Synchronous PWM-PSM Step-Down DC-DC Converter	DFN-12 (3x3)
AIC2362	2.5	6	0.8V ~ V _{IN}	3.4	2.0	200µA	W	550/1100	2A 550k/1.1MHz Synchronous Step-Down Converter with High Light-Load Efficiency	SOP-8, SOP-8E
AIC2363	2.5	6	0.8V ~ V _{IN}	5.0	3.2	200µA	S-W	550/1100	3.2A 550k/1.1MHz Synchronous Step-Down Converter with High Light-Load Efficiency	DFN-10 (3x3), SOP-8E
AIC2364	2.5	6	0.8V ~ V _{IN}	6.4	4.0	250µA	S-W	550/1200	4.0A 550k/1.2MHz Synchronous Step-Down Converter with High Light-Load Efficiency	DFN-12 (3x3), SOP-8E
AIC2385	2.5	5.5	0.6V ~ V _{IN} -0.3	2.0	1.5	65µA	S-W	1500	1.5A Synchronous PWM/PSM Step-Down DC/DC Converter	SOT23-5
AIC2354B	2.5	5.5	0.6V ~ V _{IN}	1.5	1.0	50µA	F-W	1500	1.5MHz, 1A Synchronous Step-Down DC/DC Converter	SOT23-5
AIC2386B	2.3	6	0.6V ~ V _{IN}	2.5	2.0	40µA	F-W	1000	1.0MHz, 2A Synchronous Step-Down DC/DC Converter	SOT23-5
uSiP Power Module Series										
AIC2071	2.5	6	0.6V ~ V _{IN} -0.2	1.6	1.0	17µA	A	3000	1A, 3MHz AOT Synchronous Step-Down Converter Module with Integrated Inductor	DFN-10 (2.5x3)
Inverting Series										
AIC1650	4	20	-1.22V ~ -40V		0.025 (BJT)	100µA	F	100 - 320	High-Efficiency, Inverting PFM DC/DC Controller	SOP-8
AIC1652	2.4	7	-1.22V ~ -40V		0.025 (BJT)	80µA	F	70 - 160	Micro-Power Inverting PFM DC/DC Controller	SOP-8
AIC1653	1.8	10	-1.23V ~ -28V	0.1		15µA	F	-	Micropower Inverting PFM DC/DC Converter in SOT23-5	SOT23-5

Part No.	Supply Voltage (V)		Output Voltage (V)	Current Function (A)			Control Mode A:AOT, F:PFM, S:PSM, W:PWM, C:COT	Freq. (KHz)	Description	Package
	min.	max.		Internal Switch	External Switch	I _Q				
				I _{SW} Limit	I _{OUT}					
HV Step Down Series										
AIC1563	3	30	1.25V ~ V _{IN}	2	1.5	1.6mA	S	0.1~100	Versatile DC/DC Converter	DIP-8, SOP-8, SOP-8E
AIC1573	3	30	1.25V ~ V _{IN}	2	1.5	1.6mA	S	0.1~100	1.5A Step-down DC/DC Converter	SOP-8E
AIC1576	4	18	1.22V ~ V _{IN}		5	90μA	S-F	90~280	High-Efficiency, Step-Down DC/DC Controller	SOP-8
AIC1578	4	18	1.22V ~ V _{IN}		5	90μA	S-F	90~280	High-Efficiency, Step-Down DC/DC Controller	DIP-8, SOP-8
AIC2520	16	40	1.22V ~ 10V		3	0.1μA	S-W	1000	High Voltage High Efficiency Buck LED Driver Controller	SOT23-6
AIC2565	4.75	23	1.22V ~ 16V	5	3	600μA	W	385	3A, 23V Step Down DC/DC Converter	SOP-8E
AIC2566	4.75	23	0.92V ~ 16V	5	3	600μA	W	385	3A, 23V Step Down DC/DC Converter	SOP-8E
AIC2573	4.5	25	0.8V ~ V _{IN}		10	2mA	W	300	Synchronous Buck DC-DC Controller	MSOP-10
AIC2802	4.5	23	0.925V ~ 12V	5.5	3	1.9mA	W	340	3A, 23V Synchronous Step-Down Converter with LDO Controller	SOP-8E
AIC2822	4.75	23	0.925V ~ 12V	3.4	2	700μA	W	550	2A, 23V Synchronous Step-Down Converter	SOP-8E
AIC2823	4.75	23	0.925V ~ 12V	5.8	3	700μA	W	340/550	3A, 23V Synchronous Step-Down Converter	SOP-8E
AIC2832	4.5	16	0.8V ~ 10V	4	2	0.5mA	S-W	490	2A 16V 490KHz PWM/PSM Synchronous Step-Down Converter	SOT23-6
AIC2833	4.5	16	0.8V ~ 10V	4.2	3	0.5mA	S-W	490	3A 16V 490KHz PWM/PSM Synchronous Step-Down Converter	TSOT23-6
AIC2857F	4.75	23	0.925V ~ 12V	3.4	2	1.3mA	W	340	2A, 23V Synchronous Step-Down Converter	SOP-8, SOP-8E
AIC2858F	4.75	23	0.925V ~ 12V	5.8	3	1.3mA	W	340	3A, 23V Synchronous Step-Down Converter	SOP-8E
AIC2862	4.75	23	0.925V ~ 12V	3.4	2	700μA	S-W	340/550	2A, 23V Synchronous Step-Down Converter with High Light-Load Efficiency	SOP-8E
AIC2863	4.75	23	0.925V ~ 12V	5.8	3	700μA	S-W	340	3A, 23V Synchronous Step-Down Converter with High Light-Load Efficiency	SOP-8E
AIC2864	4.5	16	0.8V ~ 6V	6.5	4	0.7mA	C	700	4A 16V 700kHz Synchronous Step-Down Converter	SOP-8E
AIC2865	4.5	16	0.8V ~ 6V	7.5	5	0.7mA	C	700	5A 16V 700kHz Synchronous Step-Down Converter	SOP-8E
AIC2873B	4.5	17	0.9V~5.5V	4.2	3	19uA	A	2500	3A 17V Synchronous Step-Down Converter with AOT Control	QFN-16 (3x3)
AIC2893	4.5	30	0.8V ~ 6V	5.5	3	0.55mA	A	650	3A 36V 650kHz Synchronous Step-Down Converter	SOP-8E
AIC2832B	3.5	18	0.765V ~ V _{IN}	2.5	2	1μA	F-W	600	600kHz, 18V, 2A Synchronous Step-Down Converter	SOT23-6
AIC2833B	3.5	18	0.765V ~ V _{IN}	3.9	2.5	1μA	F-W	600	600kHz, 18V, Peak 3A Synchronous Step-Down Converter	SOT23-6
Buck-Boost Series										
AIC2341	2.5	5.5	1.8V ~ 5.5V	1.8	1	60μA	S-W	2500	2.5MHz Synchronous Buck-Boost DC/DC Converter	DFN-10 (3x3)
Charge Pump Series										
AIC1660	1.5	6	(-V _{IN}), 0.5V _{IN} , 2.0V _{IN}		0.2	36μA		10/50	Switched-Capacitor Voltage Converter	DIP8, SOP-8
AIC1841	2.7	5.5	5.0V (up to 4 WLEDs)		0.02	1mA	W	1000	High Efficiency 1.5x PWM Charge Pump For 4 White LEDs Backlighting	QFN-12 (3x3), QFN-12 (4x4)
AIC1842	2.7	5.5	5.0V (up to 6 WLEDs)		0.02	1mA	W	1000	High Efficiency 1.5x PWM Charge Pump For 6 White LEDs Backlighting	QFN-16 (3x3), QFN-16 (4x4)
AIC1848	2.7	4.5	5	0.3		3mA	W	1800	Regulated 5V PWM Charge Pump In SOT-23 For White LEDs Backlighting	SOT23-6
AIC7660	1.5	6	(-V _{IN}), 0.5V _{IN} , 2.0V _{IN}		0.2	30μA		10/50	Switched-Capacitor Voltage Converter	DIP-8, SOP-8
LED Backlight										
AIC1634	2.6	10	V _{IN} ~ 30V	0.5		100μA	W	1400	1.4MHz Current-Mode Step-Up PWM DC/DC Converter	SOT23-6
AIC1647	2.5	5.5	V _{IN} ~ 30V			70μA	W	1200	White LED Step-Up PWM Converter	SOT23-5
AIC1648	2.5	5.5	V _{IN} ~ 30V			70μA	W	1200	Built-in OVP White LED Step-Up Converter	SOT23-6, TSOT23-6
AIC1896	2.5	10	V _{IN} ~ 30V			100μA	W	1400	1.4MHz SOT23-6 Current-Mode Step-Up PWM DC/DC Converter	SOT23-6
AIC3643	2.5	5.5	V _{IN} ~ 22V	1		150μA	W	1200	Built-in OVP White LED Step-Up Converter	SOT23-6, TSOT23-6

Part No.	Supply Voltage max. (V)	Rds-on (mΩ)	No. of Channel	Short-Circuit Protection Response Time	Current Limit (A)	Current (A)	Accuracy (%)	Package
USB Power Switch								
AIC6151	5.5	60	1	1.3 μS	0.5 ~ 1.2	1	±15	SOT23-6
AIC6152	5.5	60	1	1.3 μS	0.5 ~ 2.4	2	±15	SOT23-6
AIC6156	5.5	60	1	1.3 μS	0.5 ~ 3.6	3	±15	SOP-8E, SOT23-6
AIC6161	6.5	85	1		0.55 ~ 1	0.5	±25	SOT23-5
AIC6162	6.5	85	1		0.85 ~ 1.4	0.75	±25	SOT23-5
AIC6163	6.5	85	1		1.1 ~ 2	1	±25	SOT23-5
AIC6164	6.5	85	1		1.6 ~ 3.2	1.5	±25	SOT23-5
AIC6170	5.5	85	1		0.4 ~ 2	2	±7 ~ 12	SOT23-6
AIC6176	6.5	100	2		0.6 ~ 1.25	0.5	±30	SOP-8
AIC6178	6.5	100	2		1 ~ 2	1	±30	SOP-8
AIC6186	6.5	85	2		0.52 ~ 0.8	0.5	±20	SOP-8
AIC6188	6.5	85	2		1.05 ~ 1.55	1	±20	SOP-8
AIC6163B	5.5	60	1		1.27 ~ 1.73	1.5		SOT23-5
AIC6165B	5.5	60	1		1.95 ~ 2.25	2.1		SOT23-5

Regulatory USB Power Switch								
AIC6166	7	150	1		0.62/1.25	0.5/1	±20	SOP-8E
AIC6168	7	150	1	4 μS	0.72/1.45	0.5/1	±18	SOP-8E

Bare-Bone USB Switch								
AIC6191	5.5	170	1		0.55 ~ 1	0.5		SOT23-3
AIC6193	5.5	170	1		1.05 ~ 1.8	1		SOT23-3
AIC6196	5.5	170	2		0.55 ~ 1	0.5		SOT23-5
AIC6198	5.5	170	2		1.05 ~ 1.8	1		SOT23-5

Part No.	Supply Voltage (V)	Supply Current max. (μA)	Detecting Voltage Accuracy	Detector Threshold Hysteresis	Reset Active Timeout Period (mS)	Package
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Supervisory						
AIC809	0.9 ~ 6	3	±1.5%		230 (typ.)	SOT23-3
AIC810	0.9 ~ 6	3	±1.5%		230 (typ.)	SOT23-3
AIC811	0.9 ~ 6	3	±1.5%		230 (typ.)	SOT143-4, SOT23-5
AIC812	0.9 ~ 6	3	±1.5%		230 (typ.)	SOT143-4, SOT23-5
AIC1680	1.5 ~ 10	4.8	±2.5%	0.05 V _{DET}	0.2	SOT23-3, SOT23-5, TO92-3

Part No.	Charging Set	-ΔV Cutoff	0ΔV Cutoff Time (of Safety Timer)	ΔT-Δt Cutoff	Safety Timer Cutoff	Max. Voltage Cutoff	Max. Temp. Cutoff	Package
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NiMH- NiCd Battery Charger								
AIC1784	Single	Yes	1 mode (6%)	Yes	Yes	Yes	Yes	DIP-8, SOP-8

Part No.	Input Volt. Range (V)	Charge Current Range (mA)	Charge Termination	Battery Recharge	Safety Timer Cutoff	Battery Temp. Protection	Package
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Li-ion Charger							
AIC1790	4.5 ~ 5.5	200 ~ 1000	1/10 Full Charge Current	Yes	Yes	Yes	DFN-10 (3x3), MSOP-10E
AIC6511	4.5 ~ 6	2000	1/10 Full Charge Current	Yes	Yes	Yes	TSSOP-16E

Part No.	Supply Voltage max. (V)	Input Voltage max. (V)	Output Voltage max. (V)	Channel No.	Output Current (mA)	Package
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High Current Driver							
LB1268	8	12	10	3	1000	DIP-8, SOP-8	

Part No.	Input Voltage max. (V)	Output Voltage (V)	Output Current	Output Voltage Accuracy	Package
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Low Dropout Linear Regulator

AIC1084	7	1.8/2.5/3.3/adj.	5A	±2%	TO252-3, TO263-3
AIC1085	7	1.8/2.5/3.3/adj.	3A	±1%	TO252-3, TO263-3
AIC1086	7	1.8/2.5/3.3/adj.	1.5A	±1%	SOT223-3, TO220-3, TO252-3, TO263-3
AIC1117	7	1.8/2.5/3.3/adj.	800mA	±1%	SOT223-3, TO220-3, TO252-3, TO263-3
AIC1117A	7	1.8/2.5/3.3/adj.	1A	±1%	TO252-3, TO263-3, TO252-3, SOT263-3

Ultra Low Dropout Linear Regulator

AIC1190	6	0.8 ~ 5.0V, in step of 0.1V	1A	±2%	SOP-8E, SOT223-3, TO252-3, TO252-4, TO252-5, TO263-3, TO263-5
AIC1221	6	0.8 ~ 5.5V, in step of 0.1V	2A	±2%	SOP-8E, SOT223-3, TO252-3, TO252-5
AIC1701	6	0.8 ~ 5.0V, in step of 0.1V	150mA	±2%	DFN-6 (2x2), SOT23-3, SOT23-5
AIC1702	6.8	0.8 ~ 5.0V, in step of 0.1V	350mA	±2%	DFN-6 (2x2), SOT23-3, SOT23-5, SOT89-3
AIC1722A	8	1.5/1.8/2.0/2.5/2.7/3.0/3.3/3.5/3.7/3.8/5.0	300mA	±2%	SOT23-3, SOT89-3, TO92-3
AIC1731	12	1.5/1.8/2.5/2.8/3.0/3.3	300mA	±2%	SOT23-5, SOT89-5
AIC1733	12	1.3/1.5/1.8/2.5/3.3	500mA	±2%	SOT23-5, SOT89-5
AIC1734	12	1.8/2.0/2.5/2.7/3.0/3.3/3.5/3.7/3.8/5.0	300mA	±2%	SOT23-3, SOT89-3, TO92-3
AIC1735	12	1.8/2.5/3.3/3.5/3.8/5.0	500mA	±2%	SOT223-3, SOT23-3, SOT89-3, TO252-3
AIC1742	9	1.5/2.0	150mA	±2%	SOT23-5
AIC1746	6	1.1 ~ 4.2V, in step of 0.1V	150mA	±2%	DFN-6 (2x2), SOT23-3, SOT23-5
AIC1747	7	1.1 ~ 4.2V, in step of 0.1V	300mA	±2%	DFN-6 (2x2), SC70-3, SC70-5, SOT23-3, SOT23-5, SOT89-3, SOT89-5
AIC1747B	5.5	1.2/1.8/2.5/2.8/3.0/3.3	301mA	±3%	DFN-4 (1x1)
AIC1748	7	0.8 ~ 4.5V, in step of 0.1V	600mA	±2%	SOT23-3, SOT23-5, SOT89, SOT223-3, TO252
AIC1750	6	1.1 ~ 3.3V, in step of 0.1V	150mA	±2%	SOT-23-6, TSOT-23-6, DFN6L
AIC1952	7	Dual: 0.8 ~ 3.8V, in step of 0.1V	300mA/300mA	±2%	DFN-6 (2x2), SOT23-6
AIC1953	7	Dual: 0.8 ~ 3.8V, in step of 0.1V	600mA/600mA	±2%	SOP-8E

Part No.	Input Voltage max. (V)	Output Voltage (V)	Output Current	Load Regulation	Package
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DDR Regulator

AIC1385	5.5	adj.	2A	±20mV	SOP-8E
AIC1386	5.5	adj.	2A	±20mV	SOP-8E
AIC1387	5.5	adj.	3A	±20mV	SOP-8, SOP-8E
AIC1388	5.5	adj.	3A	±20mV	SOP-8E

Part No.	Cathode Voltage max. (V)	Reference Voltage (V)	Sink Current	Reference Voltage Accuracy	Package
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Voltage Reference

AIC431	30	2.495	250µA ~ 200mA	±0.5%	SOP-8, SOT23-3, SOT89-3, TO92-3
TL431A	30	2.495	250µA ~ 200mA	±1.0%	SOP-8, SOT23-3, SOT89-3, TO92-3
TL431	30	2.495	250µA ~ 200mA	±1.6%	SOP-8, SOT23-3, SOT89-3, TO92-3