

Power Control Circuits

Special Purpose Circuits

Type	Description	Features
ICL8069	Low voltage reference	1.2V temperature compensated voltage reference uses band-gap principal for excellent stability and low noise at reverse currents down to 50 μ A. 0 to 70°C and -55 to +125°C temperature ranges (metal only). Temperature coefficients of 0.005 and 0.01/°C.
HV-1205	Monolithic power supply	120VAC to 5VDC conversion. 50mA output drive.

Type	Description	V _I Range V	V _O Range V	I _O (Max) mA	Load Regulation % V _O (Max)	V _I - V _O V (Min)	Short-Circuit Current Limit mA (Typ)	Package Number of Pins*
CA3085	Voltage regulators	7.5 to 30	1.8 to 26	12**	0.1	4	96	8T,
CA3085A		7.5 to 40	1.7 to 36	100	0.15	4	96	8S,
CA3085B		7.5 to 50	1.7 to 46	100	0.15	3.5	96	8E
CA723		9.5 to 40	2 to 37	150	0.03	3	65	10T
CA723C		9.5 to 40	2 to 37	150	0.03	3	65	14E
		**This value may be extended to 100mA; however, regulation is not specified beyond 12mA. Operating temperature range (T _A): -55 to +125°C. Electrical characteristics at T _A = 25°C						
CA1523	Voltage regulator control circuit	V _{CC} (Pin 7) V	V _{CC} Range V	I _{CC} mA	Error Voltage Ref. (Pin 1) V	Pulse Output V _{OL} (Pin 6) V	Pulse Output V _{OH} (Pin 6) V	Max Load Duty Cycle %
		13	10-15	27	6.5	1.0	12	50
		Variable internal pulse regulator. Operating temperature range (T _A): 0 to +70°C. Characteristics shown are typical @ T _A = 25°C.						
CA1524 CA2524 CA3524	Regulating pulse-width modulators	V ⁺ Range V	V _O Range V	Load Regulation % V _O (Typ)	Ripple Rejection dB (Typ)	Total Standby Current I _s (mA) (Max)	V _{CE SAT} V (Typ)	
		8 to 40	4.8 to 5.2	0.2	66	10	0.8	
		8 to 40	4.8 to 5.2	0.2	66	10	0.8	
		8 to 40	4.6 to 5.4	0.2	66	10	0.8	
		Electrical characteristics at V ⁺ = 20V, f = 20kHz. T _A = -55 to +125°C for CA1524; 0 to +70°C for CA2524, CA3534. 16-lead dual-in-line (E) & (F) packages. Short-circuit current limit: 100mA typ. Temperature stability: 1% max.						
CA3059 CA3079	Zero voltage switches	AC Input Voltage @ 50-60 & 400Hz (VAC)	Max. DC Supply Volts (V)	Max. Input Current (μA)	Sensor Range (R _X) kΩ	Control Current to Thyristor Gate (mA)		
		24 120 208/230 277	14 10	1 2	2 to 100 2 to 50	Up to 124 with internal supply; up to 240 with one external supply		
		Electrical characteristics at T _A = 25°C. 14-lead dual-in-line (E) package. Operating temperature range (T _A): -55 to +125°C.						

* See interpretation guide and packaging section