D3219, JULY 1988-REVISED JANUARY 1989

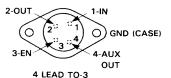
- Two Regulated Outputs + 12 V at 3 A
 - +5 V at 75 mA
- 2% Output Voltage Tolerance
- 60-dB Ripple Rejection
- 0.7% Output Regulation
- 100% Thermal-Limit Burn-In
- TTL and CMOS Compatible Logic Control

description

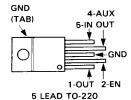
The LT1036 contains two positive regulators in the same package. The 12-V main regulator supplies current up to 3 A and the auxiliary 5-V regulator supplies up to 75 mA. The 12-V main regulator has an additional feature that allows a logic signal to control its operation. When the enable input is taken to a low logic level, the main regulator shuts down and its output voltage goes to near 0 V. The auxiliary regulator at this time is unaffected and continues to provide a 5-V output.

The 12-V main output has current and power limiting combined with thermal shutdown to make it very reliable. The 5-V auxiliary output is not affected by the thermal shutdown circuits or the state of the 12-V main output. This allows it to be used as a back-up in case of overloads on the main supply. The logic enable input of the LT1036 has a 1.6-V threshold and can be driven by most logic families including TTL and CMOS.

Typical applications include power supply sequencing, remote on/off power control, selective system power during emergency power operation, and power supply with backup. (TOP VIEW)



KV PACKAGE (TOP VIEW)



AVAILABLE OPTIONS

	PACKAGE			
₹J	4 LEAD	5 LEAD		
	TO-3	TO-220		
	KJ	ΚV		
0°C to 125°C	LT1036CKJ	LT1036CKV		
-55°C to 150°C	LT1036MKJ			



Schematic diagram (5) (6) (7) (8) (9) (10)

All resistor values are nominal and in ohms.

absolute maximum ratings over operating virtual-junction temperature range (unless otherwise noted)

Input voltage, V _I
Enable voltage, VEN
Continuous power dissipation, Pp
Power dissipation under fault conditions Internally self-limited
Operating virtual junction temperature range: LT1036M
LT1036C 0°C to 125°C
Storage temperature range65 °C to 150 °C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds: KJ package 300 °C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds: KV package 260°C

recommended operating conditions

		MIN	MAX	UNIT
Output current, IO			3	Α
	LT1036M	-55	150	°C
Operating junction temperature, TJ	LT1036C	0	125	°C

