Yixin

TO-92 Plastic-Encapsulate Transistors

79L09

CJ79L09 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

I_{OM}: 0.1 A

Output voltage

V_o: - 9 V

TO-92

1.GND

2.IN

3.OUT

ABSOLUTE MAXIMUM RATINGS(Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_I	-30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	℃
Storage Temperature Range	T_{STG}	-55—+150	℃

ELECTRICAL CHARACTERISTICS(VI=-16V,Io=40mA,0℃<Tj<125℃,C1=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	-8.64	-9.0	-9.36	V
		-12V≤V_I≤-24V, Io=1mA-40mA	-8.55	-9.0	-9.45	V
		Io=1mA-70mA	-8.55	-9.0	-9.45	V (note)
Load Regulation	△Vo	Tj=25℃, Io=1mA-100mA		19	90	mV
		Tj=25℃, Io=1mA-40mA		11	40	mV
Line regulation	△Vo	-12 V≤V_I≤-24V, Tj=25℃		45	175	mV
		-13v≤V_I≤-24V, Tj=25℃		40	125	mV
Quiescent Current	Iq			4.1	6.0	mA
Quiescent Current Change	△Iq	-13V≤V_I≤-24V			1.5	mA
	△Iq	1mA≤V_I≤40mA			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		58		uV
Ripple Rejection	RR	-15V≤V_I≤-24V,f=120Hz,Tj=25℃		45		dB
Dropout Voltage	Vd	Tj=25℃		1.7		V

TYPICAL APPLICATION