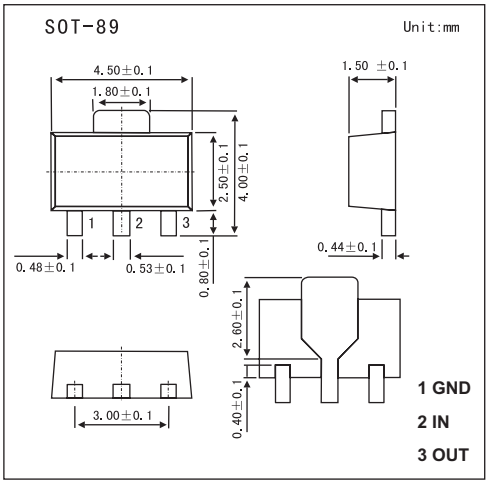
Three-terminal Voltage Regulator

LM79L09



Features

- Maximum output current I_{OM} : 0.1A.
- Output voltage V_O : -9V.
- Continuous total dissipation P_D : 0.5W

Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Input Voltage	V_I	-30	V
Operating junction temperature range	TOPR	-55 to +125	℃
Storage Temperature Range	TSTG	-55 to +150	℃

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Output voltage	Vo	Tj=25℃	-8.64	-9.0	-9.36	V
		-12V≤VI≤-24V, Io=1mA-40mA	-8.55	-9.0	-9.45	V
		Io=1mA-70mA	-8.55	-9.0	-9.45	V
Load regulation	△Vo	Tj=25℃, Io=1mA-100mA		19	90	mV
		Tj=25℃, Io=1mA-40mA		11	40	mV
Line regulation	△Vo	-12V≤VI≤-24V, Tj=25℃		45	175	mV
		-13V≤VI≤-24V, Tj=25℃		40	125	mV
Quiescent current	Iq	25℃		4.1	6.0	mA
Quiescent current change	△Iq	0℃<Tj<125℃,-13≤VI≤-24V			1.5	mA
	△Iq	0℃<Tj<125℃,1mA≤Io≤40mA			0.1	mA
Output noise voltage	VN	10Hz≤f≤100KHz,Tj=25℃		58		uV
Ripple rejection	RR	-15V≤VI≤-24V,f=120Hz		45		dB
Dropout voltage	Vd	Tj=25℃		1.7		V

Typical Application