

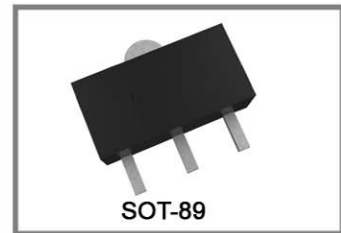
● Features:

Output current in excess of 150 mA No external components required Internal short circuit current limiting
 Internal thermal overload protection Available in either 5% selections

78L09
 Three-terminal fixed output
 voltage regulator
 0.5W、0.15A、9V

● Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Input voltage (TA=25°C)	VI	35	V
Output current	IO	0.15	A
Power dissipation (TA=25°C)	PD	0.5	W
Ambient temperature	TOP	-40~85	°C
Storage Temperature	Tstg	-55~150	°C

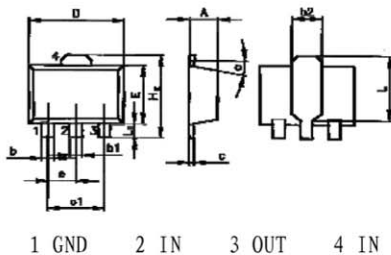


Device is installed in a good heat dissipation

● Electrical characteristics (Unless otherwise specified) 0 ≤ TJ ≤ +125°C, VI=15V, IO=40mA, CI=0.33μF, CO=0.1μF)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Output voltage	VO	TJ=25°C	8.55	9.0	9.45	V	
		1mA ≤ IO ≤ 40mA, 11.4V ≤ VI ≤ 24V	8.37	9.0	9.63		
Voltage Regulation	SV	TJ=25°C	11.4V ≤ VI ≤ 24V	—	—	200	mV
			12V ≤ VI ≤ 24V	—	—	160	
Current Regulation	SI	TJ=25°C, 1mA ≤ IO ≤ 100mA	—	—	90	mV	
Quiescent Current	IQ	TJ=25°C	—	—	6.5	mA	
Quiescent Current Change	ΔIQ	1mA ≤ IO ≤ 40mA	—	—	0.1	mA	
		12V ≤ VI ≤ 24V	—	—	1.5		
Input - output differential pressure	VI - VO	TJ=25°C	—	1.7	—	V	
Ripple Rejection Ratio	Srip	TJ=25°C, 12V ≤ VI ≤ 24V; f=120Hz;	—	44	—	dB	

SOT-89 Dimensions



Unit : mm

Size Symbol	SOT-89			Size Symbol	SOT-89		
	min	typ	max		min	typ	max
A		1.5		e		1.5	
b			0.65	e1		3	
b1			0.65	HE			4.25
b2		1.6		L	2.6		2.95
c	0.25			LE	0.8		1.2
D		4.5		α			10°
E			2.6				

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