

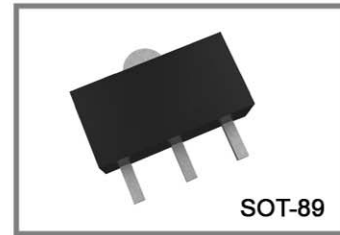
● Features:

- 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

78L12
Three-terminal fixed output
voltage regulator
0.5W, 0.15A, 12V

● 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

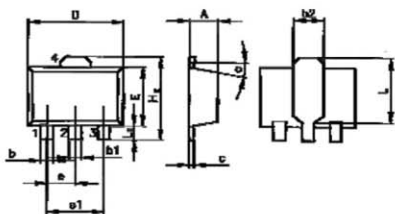


Device is installed in a good heat dissipation

● Electrical characteristics (Unless otherwise specified) 0 ≤ Tj ≤ +125°C, Vi=19V, Io=40mA, Ci=0.33µF, Co=0.1µF

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Output voltage	Vo	Tj=25°C	11.4	12	12.6	V	
		1mA ≤ Io ≤ 40mA, 14.5V ≤ Vi ≤ 27V	11.16	12	12.84		
Voltage Regulation	Sv	Tj=25°C	14.5V ≤ Vi ≤ 27V	—	—	250	mV
			16V ≤ Vi ≤ 27V	—	—	200	
Current Regulation	SI	Tj=25°C, 1mA ≤ Io ≤ 100mA	—	—	100	mV	
Quiescent Current	IQ	Tj=25°C	—	—	6.5	mA	
Quiescent Current Change	ΔIQ	1mA ≤ Io ≤ 40mA	—	—	0.1	mA	
		16V ≤ Vi ≤ 27V	—	—	1.5		
Input - output differential pressure	VI - VO	Tj=25°C	—	1.7	—	V	
Ripple Rejection Ratio	Srip	Tj=25°C, 15V ≤ Vi ≤ 25V; f=120Hz	—	43	—	dB	

SOT-89 Dimensions



1 GND 2 IN 3 OUT 4 IN

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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