

● Features:

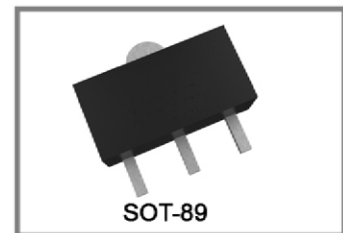
- Output current in excess of 150 mA No external components required Internal short circuit current limiting
- Internal thermal overload protection Available in either 5% selections

78L08
Three-terminal fixed output
voltage regulator
0.5W, 0.15A, 8V

● Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Input voltage (Ta=25°C)	V _I	35	V
Output current	I _O	0.15	A
Power dissipation (Ta=25°C)	P _D	0.5	W
Ambient temperature	T _{OP}	-40~85	°C
Storage Temperature	T _{stg}	-55~150	°C

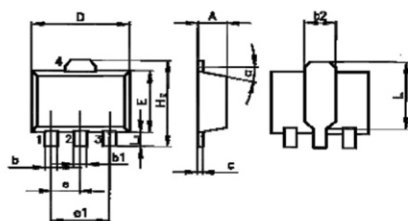
Device is installed in a good heat dissipation



● Electrical characteristics (Unless otherwise specified) 0 ≤ T_J ≤ +125°C, V_I=14V, I_O=40mA, C_I=0.33μF, C_O=0.1μF)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Output voltage	V _O	T _J =25°C	7.6	8.0	8.4	V	
		1mA ≤ I _O ≤ 40mA, 10.5V ≤ V _I ≤ 23V	7.44	8	8.56		
Voltage Regulation	S _V	T _J =25°C	10.5V ≤ V _I ≤ 23V	—	—	175	mV
			11V ≤ V _I ≤ 23V	—	—	125	
Current Regulation	S _I	T _J =25°C, 1mA ≤ I _O ≤ 100mA	—	—	80	mV	
Quiescent Current	I _Q	T _J =25°C	—	—	6.5	mA	
Quiescent Current Change	ΔI _Q	1mA ≤ I _O ≤ 40mA	—	—	0.1	mA	
		11V ≤ V _I ≤ 23V	—	—	1.5		
Input - output differential pressure	V _I - V _O	T _J =25°C	—	1.7	—	V	
Ripple Rejection Ratio	S _{rip}	T _J =25°C, 12V ≤ V _I ≤ 23V; f=120Hz	—	45	—	dB	

SOT-89 Dimensions



1 OUT 2 GND 3 IN 4 GND

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	H _E			4.25
b2		1.6		L	2.6		2.95
c	0.25			L _E	0.8		1.2
D		4.5		a			10°
E			2.6				

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