



Three Terminal Regulator 78LXXS

FEATURES

- Maximum Output current Io: 0.1 A
- Output voltage Vo: 5 V
- Continuous total dissipation PD:0.35 W (Ta =25)

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies)

Parameter	Symbol	Value	Unit
Input Voltage	VI	30	V
Operating Junction Temperature Range	T_{OPR}	0-125	$^{\circ}\! \mathbb{C}$
Storage Temperature Range	T_{STG}	-65-150	$^{\circ}$ C



$\textbf{ELECTRICAL CHARACTERISTICS} \; (\text{Vi=10V,Io=40mA,Ci=0.33}\; \mu \; \text{F,Co=0.1}\; \mu \; \text{F}, \quad 25\, ^{\circ}\text{C} \; \; \text{unless otherwise specified} \;)$

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
			25℃	4.8	5.0	5.2	V
Output voltage	Vo	7V≤Vi≤20V, Io=1mA~40mA	0-125℃	4.75	5.0	5.25	v
		Io=1mA~70mA		4.75	5.0	5.25	v
Load Regulation	ΔVο	Io=1mA~100mA	25℃		15	60	mV
		Io=1mA~40mA	25℃		8	30	mV
Time menulation	ΔVο	7V≤Vi≤20V			32	150	mV
Line regulation		8V≤Vi≤20V	25℃		26	100	mV
Quiescent Current	Iq		25℃		3.8	6	mA
Quis great Champet Champs	ΔIq	8V≤Vi≤20V	0-125℃			1.5	mA
Quiescent Current Change	ΔIq	1mA≤V <u>1</u> ≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V_{N}	10Hz≤f≤100KHz	25℃		42		uV
Ripple Rejection	RR	8V≤Vi≤20V,f=120Hz	0-125℃	41	49		dB
Dropout Voltage	Vd		25℃		1.7		v

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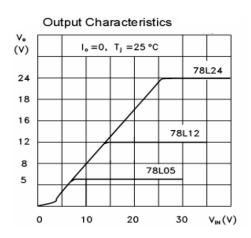
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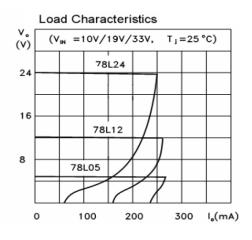






Typical Performance Characteristics





Thermal Shutdown

V_o
(V)

(V_{IN}=10V\19V\33V, I_o=0mA)

30

25

78L24

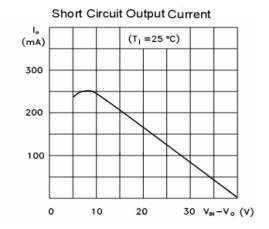
20

15

78L12

10

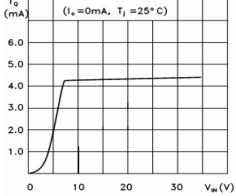
78L05



Quiescent Current vs Input Voltage

100

T_A(°C)



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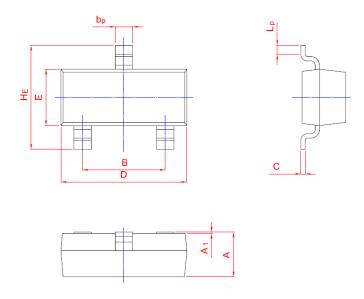






PACKAGE OUTLINE

Plastic surface mounted package; 3 leads



UNIT	Α	В	bp	С	D	E	HE	A 1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	

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