

Continental Device India Limited An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



VOLTAGE REGULATOR



Lead 1.Output 2.Ground 3.Input

LM78L12

TO-92 Plastic Package

The voltages available allow these Regulators to be used in Logic Systems, Instrumentation, Hi-Fi Audio Circuits and other Solid State Electronic Equipment

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Input Voltage	V _{IN}	35	V
Power Dissipation	P _D	625	mW
Junction to Ambient in free air	T _{amb}	0 to +150	°C
Storage Temperature Range	T _{stg}	- 55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_a=25^oC unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Output Voltage	Vo	V _I =19V, I _O =40mA	11.50		12.50	V
		I _O =1mA to 40mA, 0⁰C to 125⁰C	11.40		12.60	V
		V _I =14V to 27V,0°C to 125°C	11.40		12.60	V
Ripple Rejection	R _R	V _I =15V to 25V, f=120Hz	37			dB
Line Regulation	R _{BGIN}	V_{I} =14.5V to 27V, I_{O} =40mA			250	mV
		V _I =16 to 27V			200	mV
Load Regulation	R _{BGL}	$I_0=1$ mA to 100mA, $V_1=19V$			100	mV
		I _O =1mA to 40mA			50	mV
Output Noise Voltage	V _{NO}	f=10Hz to 100KHz		70		μV
Dropout Voltage	V _{DIF (min)}	V _I =19V, I _O =40mA		1.7		V
Quiescent Current	Ι _Q	$V_1 = 19V, I_0 = 40mA, T_a = 25^{\circ}C$			6.5	mA
		V_1 =19V, I_0 =40mA , T_a =125°C			6.0	mA
Quiescent Current Change	ΔI_{QIN}	V_{I} =16V to 27V, I_{O} =40mA, T_{a} =0°C to 125°C			1.5	mA
	Δl _{QL}	$I_0=1$ mA to 40mA, $V_1=19V$ $T_a=0^{\circ}C$ to 125°C		-	0.1	mA

LM78L12Rev060905D

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Disclaimer

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CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119 email@cdil.com www.cdilsemi.com

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