

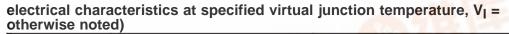
## 捷多邦,专业PCB打样工厂,24小时加急出货

Π

- 3-Terminal Regulators
- Output Current up to 100 mA
- No External Components
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Direct Replacements for Fairchild µA78L Series

## description

This series of fixed-voltage integrated-circuit voltage regulators is designed for a wide range of applications. These applications include on-card regulation for elimination of noise and distribution problems associated with single-point regulation. In addition, they can be used with power-pass elements to make high-current voltage regulators. One of these regulators can deliver up to 100 mA of output current. The internal limiting and thermal-shutdown features of these regulators make them essentially immune to overload. When used as a replacement for a zener diode-resistor combination, an effective improvement in output impedance can be obtained, together with lower bias current.



PARAMETER	TEST CONDITIONS	т ‡	9 = -	TVD	UNIT
	PLACE.	25°C	MIN	TYP MAX	
Output voltage	WWW.	Full range			V
	IO = 1 mA to 70 mA	Full range			-
Input voltage regulation	V	0		-51	100
	V <sub>I</sub> =	0		and the	A10:0
Ripple rejection	V <sub>I</sub> = f = 120 Hz	25°C		WW.BZSC	dB
Output voltage regulation	I <sub>O</sub> = 1 mA to 100 mA	0	A. 4162.	111 11	
	I <sub>O</sub> = 1 mA to 40 mA		6	a. **	
Output noise voltage	f = 10 Hz to 100 kHz	25°C			μV
Dropout voltage	DE DE NOZSON	25°C			V
and he	WW.	25°C			
		125°C			1
Bias current change	VI =	rongo		1.5	
	I <sub>O</sub> = 1 mA to 40 mA	range		0.1	

Rulse-testing techniques maintain T<sub>J</sub> as close to T<sub>A</sub> as possible. Thermal effects must be taken into account separately. All characteristics are measured with a  $0.33 - \mu$ F capacitor across the input and a  $0.1 - \mu$ F capacitor across the output. Full range for the 78L05 is T<sub>J</sub> = 0°C to 70°C

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		UNIT
Input voltage, V <sub>I</sub>		٧
Virtual junction temperature range, T <sub>J</sub>		°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds		°C
Storage temperature range, T <sub>stg</sub>		°C

	MIN	MAX	UNIT
Input voltage, V <sub>I</sub>			
Output current, IO		100	mA
Operating virtual junction temperature, TJ			°C