

捷多邦,专业PCB打样工厂,24小时加急出货

- 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 µA78L0 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.



electrical characteristics at specified virtual junction temperature, $V_{I} = 1$ V, I = 40 mA (unless otherwise noted)

PARAMETER	TEST CONDITIONS	т ‡	MIN	TYP MAX	UNIT
	W.DZSC	25°C			
Output voltage	0	Full range			V
	I _O = 1 mA to 70 mA	Full range			
Input voltage regulation	V _I =	0		-510	
	V _I =				:01A
Ripple rejection	V _I = f = 120 Hz	25°C		W.OZSC	dB
Output voltage regulation	I _O = 1 mA to 100 mA	0		W W	
	I _O = 1 mA to 40 mA		6 2 2		
Output noise voltage	f = 10 Hz to 100 kHz	25°C			μV
Dropout voltage	DE DE NU.DZSO	25°C		1.7	V
602	WW .	25°C		6	
		125°C		5.5	
Bias current change	V _I =	rango		1.5	
	$I_{O} = 1 \text{ mA to } 40 \text{ mA}$	range		0.1	

Pulse-testing techniques maintain T_J as close to T_A 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_J = 0°C to 70°C

		UNIT
Input voltage, VI		٧
Virtual junction temperature range, T _J		°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds		°C
Storage temperature range, T _{stg}		°C

	MIN	MAX	UNIT
Input voltage, V _I			
Output current, IO		100	mA
Operating virtual junction temperature, TJ			°C