

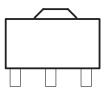
- 3-Terminal Regulators
- Output Current up to 100 mA
- No External Components
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Direct Replacements for Fairchild μA78L0 Series

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, $V_I = 1 \text{ V}$, I = 40 mA (unless otherwise noted)

PARAMETER	TEST CONDITIONS	т‡				UNIT
			MIN	TYP	MAX	
Output voltage		25°C				
	0	Full range				V
	I _O = 1 mA to 70 mA	Full range				
Input voltage regulation	V _I =	0				
	V _I =					
Ripple rejection	V _I =	25°C				dB
Output voltage regulation	I _O = 1 mA to 100 mA	0				
	$I_O = 1 \text{ mA to } 40 \text{ mA}$					
Output noise voltage	f = 10 Hz to 100 kHz	25°C				μV
Dropout voltage		25°C		1.7		V
		25°C		·	6	
		125°C		•	5.5	
Bias current change	V _I =	rongs			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-μF capacitor across the input and a 0.1-μF capacitor across the output. Full range for the 78L05 is T_J = 0°C to 70°C

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		UNIT
Input voltage, V _I		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, T _J			°C