

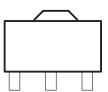
- 3-Terminal Regulators
- Output Current up to 100 mA
- No External Components
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Direct Replacements for Fairchild μA78L Series

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.







electrical characteristics at specified virtual junction temperature, V_I = otherwise noted)

PARAMETER	TEST CONDITIONS	т‡				UNIT
			MIN	TYP	MAX	
		25°C		,		
Output voltage		Full range				V
	$I_O = 1 \text{ mA to } 70 \text{ mA}$	Full range				
Input voltage regulation	V _I =					
	V ₁ =					
Ripple rejection	V _I = f = 120 Hz	25°C				dB
Output voltage regulation	I _O = 1 mA to 100 mA					
	$I_O = 1 \text{ mA to } 40 \text{ mA}$					
Output noise voltage	f = 10 Hz to 100 kHz	25°C				μV
Dropout voltage		25°C				V
		25°C			6	
		125°C			5.5	
Bias current change	V _I =	ranga			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		V
Virtual junction temperature range, TJ		°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	0		°C