

- 3-Terminal Regulators
- Output Current Up to 100 mA
- No External Components Required
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Direct Replacement for Motorola MC79L00 Series

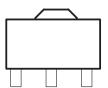




TO-92

description

This series of fixed negative-voltage integrated-circuit voltage regulators is designed for a wide range of applications. These include on-card regulation for elimination of noise and distribution problems associated with single-point regulation. In addition,



they can be used to control series pass elements to make high-current voltage-regulator circuits. One of these regulators can deliver up to 100 mA of output current. The internal current-limiting and thermal-shutdown features make them essentially immune to overload. When used as a replacement for a zener-diode and resistor combination, these devices can provide ef current.

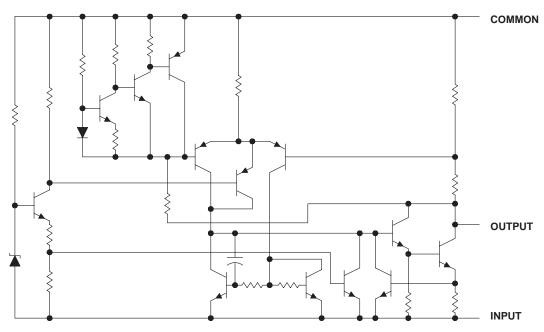
electrical characteristics at specified virtual junction temperature, $V_I = 10 \text{ V}$, I = 40 mA (unless otherwise noted)

otherwise hote	, , ,					
PARAMETER	TEST CONDITIONS	т‡	MIN	TYP	MAX	UNIT
Output voltage		25°C				
	0	Full range				V
	$I_O = 1 \text{ mA to } 70 \text{ mA}$	Full range				
Input voltage regulation	V _I =	0	0		150	
	V _I =				100	
Ripple rejection	V _I = f = 120 Hz	25°C	41	49		dB
Output voltage regulation	I _O = 1 mA to 100 mA	0			60	
	$I_O = 1 \text{ mA to } 40 \text{ mA}$				30	
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 mA to 40 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- μ F capacitor across the input and a 0.1- μ F capacitor across the output. Full range for the 7 $_J$ = 0°C to 70°C

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equivalent schematic



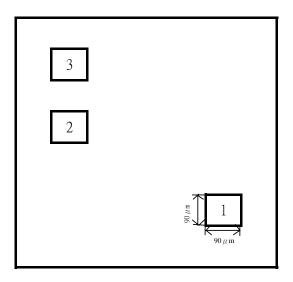
absolute maximum ratings over operating free-air temperature range (unless otherwise noted) $\!\!\!\!\!^{\dagger}$

Input voltage: 79L05		
Operating free-air, case	e, or virtual junction temperature	°C
•	n (1/16 inch) from case for 10 seconds	

recommended operating conditions

79L05	MIN	MAX	UNIT
Input voltage, V _I	-7	-20	V
Output current, IO		100	mA
Operating virtual junction temperature, T _J			°C

Pad Location WS79L00



chip size 1.15 x 1.35mm

Pad Location Coordinates

Pad N	Pad Name	X(μ m)	Y(μ m)
1	Ground	1150	115
2	Input	115	690
3	Output	115	950