

- 3-Terminal Regulators
- Output Current Up to 100 mA
- No External Components Required
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Provided Pb-Free packages from the end of 2004

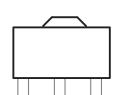




TO-92

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 = otherwise noted)

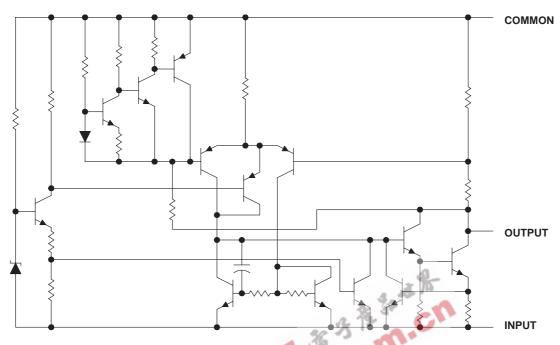
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PARAMETER	TEST CONDITIONS	т ‡	MIN	TYP	MAX	UNIT
		25°C				
Output voltage		Full range				V
Input	V _I =	۰				
voltage regulation	V _I =	, and the second				
Ripple rejection	V _I = f = 120 Hz	25°C				dB
Output	I _O = 1 mA to					
voltage regulation	$I_O = 1 \text{ mA to}$					
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	V _I =	rango			1.5	
current change	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-μF capacitor across the input and a 0.1-μF capacitor across the output. Full range for the 7

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equivalent schematic



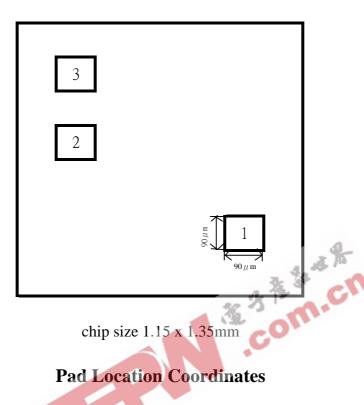
absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Input voltage: 79L0			
Operating free-air, case,	, or virtual junction temperature		°C
Lead temperature 1.6 mm	(1/16 inch) from case for 10 seconds		260°C
Storage temperature rand	e Tata	-65°C to	150°C

recommended operating conditions

79L0	MIN	MAX	UNIT
Input voltage, V _I			V
Output current, IO		100	mA
Operating virtual junction temperature, T _J			°C

Pad Location WS79L00



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