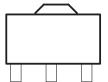


- 3-Terminal Regulators
- Output Current Up to 100 mA
- No External Components Required
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Direct Replacement for Motorola MC79L Series





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.

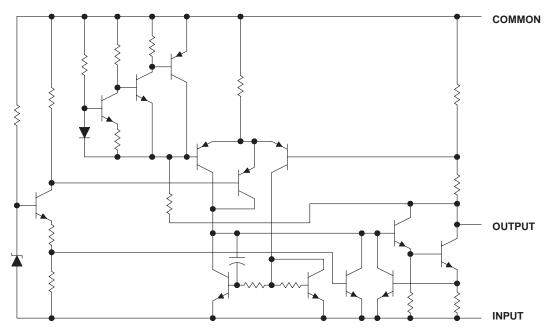
electrical characteristics at specified virtual junction temperature,  $V_I$  = otherwise noted)

other wise note	· · · · · · · · · · · · · · · · · · ·					
PARAMETER	TEST CONDITIONS	т‡	MIN	TYP	MAX	UNIT
		25°C				
Output voltage	0	Full range				V
	I <sub>O</sub> = 1 mA to 70 mA	Full range				
Input voltage regulation	V <sub>I</sub> =	0				
	V <sub>I</sub> =					
Ripple rejection	V <sub>I</sub> = f = 120 Hz	25°C				dB
Output	I <sub>O</sub> = 1 mA to 100 mA	0				
voltage regulation	I <sub>O</sub> = 1 mA to 40 mA					
Output noise voltage	f = 10 Hz to 100 kHz	25°C				μV
Dropout voltage		25°C		1.7		V
		25°C				
		125°C				
Bias	V <sub>I</sub> =	rongo			1.5	
current change	I <sub>O</sub> = 1 mA to 40 mA	range		·	0.1	

<sup>‡</sup> 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 7  $_J$  = 0°C to 70°C

Wing Shing Computer Components Co., (H.K.)Ltd.
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#### equivalent schematic



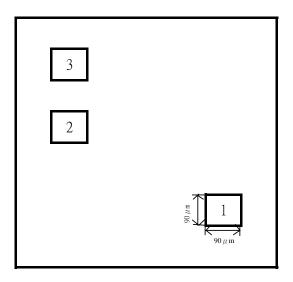
### absolute maximum ratings over operating free-air temperature range (unless otherwise noted) $^{\dagger}$

Input voltage: 79L	
Operating free-air, case, or virtual junction temperature	°C
Lead temperature 1.6 mm (1/16 inch) from case for 10 seconds	

### recommended operating conditions

79L	MIN	MAX	UNIT
Input voltage, V <sub>I</sub>			V
Output current, IO		100	mA
Operating virtual junction temperature, T <sub>J</sub>			°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