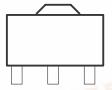


- 3-Terminal Regulators
- Output Current Up to 100 mA
- No External Components Required
- Internal Thermal-Overload Protection
- Internal Short-Circuit Current Limiting
- Direct Replacement for Motorola MC79L00 Series





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 V, I = 40 mA (unless otherwise noted)

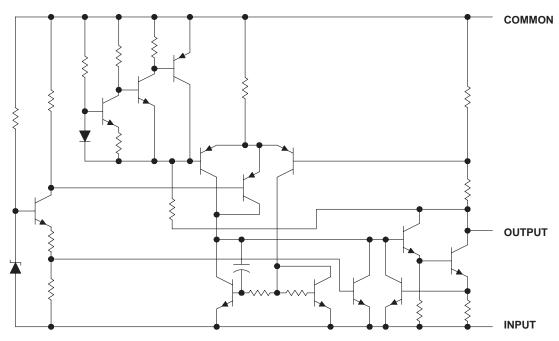
PARAMETER	TEST CONDITIONS	т‡	UNIT DZSC.COM UNIT		
			MIN	TYP MAX	
		25°C			
Output voltage	0	Full range			V
	I _O = 1 mA to 70 mA	Full range			1
Input voltage regulation	VI = Table 1	٥		150	
	V _I =	1		100]
Ripple rejection	V _I = f = 120 Hz	25°C	41	49	dB
Output	I _O = 1 mA to 100 mA	۰		60	
voltage regulation	I _O = 1 mA to 40 mA			30	
Output noise voltage f = 10 Hz to 100 kHz		25°C	or F	WWW.DZSC.	μV
Dropout voltage		25°C		1.7	V
	- 1.Z. Fill	25°C		6	
	- ZFD 120 PM	125°C		5.5	
Bias	V _I =			1.5	
current change	I _O = 1 mA to 40 mA	range		0.1	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



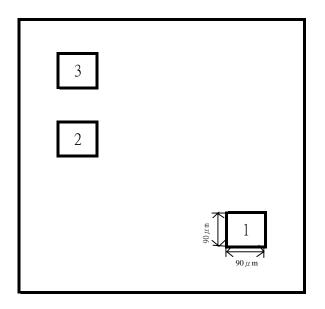
absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Input voltage: 79L05	
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

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

Pad Location WS79L00



chip size 1.15 x 1.35mm

Pad Location Coordinates

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