



Micro Commercial Components

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 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# MC79L05BP

## Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Absolute Maximum Ratings

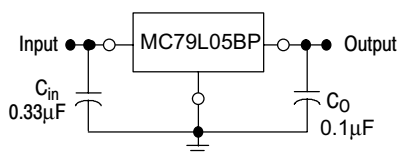
Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	-30	V
Operating Junction Temperature	$T_{OPR}$	-30---+75	°C
Storage Temperature Range	$T_{STG}$	-40---+125	°C

## Electrical Characteristics ( $V_i = -10V$ , $I_o = 40mA$ , $0^\circ C < T_j < 125^\circ C$ , $C_1 = 0.33\mu F$ , $C_o = 0.1\mu F$ , unless otherwise specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	$V_o$	-4.8V	-5.0V	-5.2V	$V_i = -10V$ , $I_o = 40mA$
Load Regulation	$V_o - I_o$		7.0mV	60mV	$I_o = 1mA - 100mA$ , $V_i = -10V$
Line regulation	$V_o - V_i$		15mV	150mV	$-7V \leq V_i \leq -20V$ , $I_o = 40mA$
Quiescent Current	$I_q$		3.5mA	6.0mA	$V_i = -10V$ , $I_o = 40mA$
Output Noise Voltage	$V_N$		120 $\mu$ V		$10Hz \leq f \leq 100KHz$ $V_i = -10V$ , $I_o = 40mA$
Ripple Rejection	RR	41dB	71dB		$-8V \leq V_i \leq -18V$ , $I_o = 40mA$ $f = 120Hz$ , $T_j = 25^\circ C$ $e_{IN} = 1V_{P-P}$

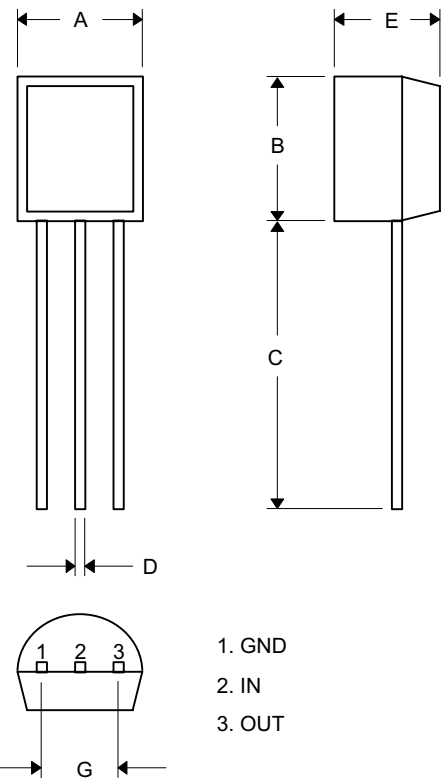
\*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Application:



## Three-Terminal Low Current Negative Voltage Regulator

### TO-92



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.175	.185	4.45	4.70	
B	.175	.185	4.46	4.70	
C	.500	---	12.7	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	



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## Ordering Information

Device	Packing
(Part Number)-AP	Ammo Packing;2Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Bag

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