



MC79L05BP

Three-Terminal Low Current Negative Voltage Regulator

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Absolute Maximum Ratings

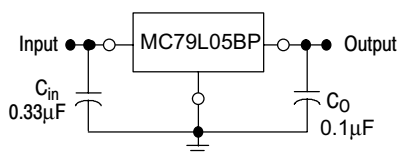
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	V
Operating Junction Temperature	T_{OPR}	-30---+75	°C
Storage Temperature Range	T_{STG}	-40---+125	°C

Electrical Characteristics ($V_i = -10V$, $I_o = 40mA$, $0^\circ C < T_j < 125^\circ C$, $C_1 = 0.33\mu F$, $C_0 = 0.1\mu F$, 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 μ 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:



TO-92

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	

* For ammo packing detailed specification, click here to visit our website of product packaging for details.



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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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