



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





MC79L05F

Three-Terminal Low Current Negative Voltage Regulator

Features

- Maximum Output current I_o :0.1A
- 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)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Absolute Maximum Ratings

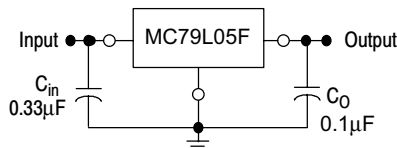
Parameter	Symbol	Value	Unit
Input Voltage	V_{in}	-30	V
Operating Junction Temperature	T_{OPR}	-30---+75	°C
Storage Temperature Range	T_{STG}	-40---+125	°C

Electrical Characteristics (V_i =-10V, I_o =40mA, $0^\circ\text{C} < T_j < 125^\circ\text{C}$, $C_1=0.33\mu\text{F}$, $C_0=0.1\mu\text{F}$, unless otherwise specified)

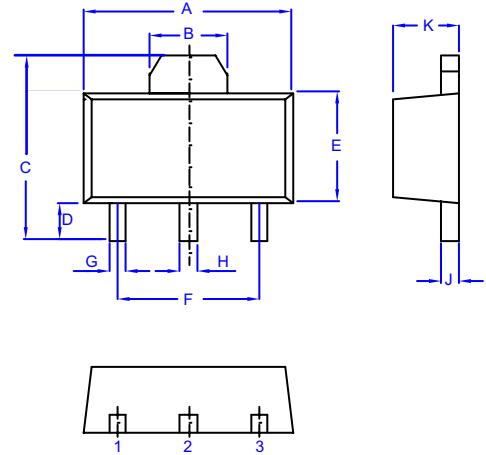
Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	-4.8V	-5.0V	-5.2V	$V_i=-10V, I_o=40mA$
Load Regulation	$V_o - I_o$		7.0mV	60mV	$I_o=1mA-100mA, V_i=-10V$
Line regulation	$V_o - V_i$		15mV	150mV	$-7V \leq V_i \leq -20V, I_o=40mA$
Quiescent Current	I_q		3.5mA	6.0mA	$V_i=-10V, I_o=40mA$
Output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

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

Typical Application:



SOT-89



1. GND
2. IN (Case)
3. OUT

DIM	DIMENSINS				NOTES
	INCHES		MM		
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	



Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-TP	Tape & Reel; 1 Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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