



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!



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Micro Commercial Components

Micro Commercial Components
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Features

- Maximum Output current $I_o:0.1A$
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

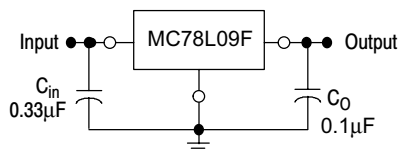
Parameter	Symbol	Value	Unit
Input Voltage	V_1	30	V
Operating Junction Temperature	T_{OPR}	-20---+120	°C
Storage Temperature Range	T_{STG}	-55---+150	°C

Electrical Characteristics ($V_1=15V, I_o=40mA, 0^\circ C < T_j < 125^\circ C, C_1=0.33\mu F, C_o=0.1\mu F, \text{ unless otherwise specified}$)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	8.64V	9.0V	9.36V	$T_j=25^\circ C$
		8.55V		9.45V	$11.5V \leq V_1 \leq 24V, I_o=1mA-40mA$
		8.55V		9.45V	$11.5V \leq V_1 \leq V_{MAX}, I_o=1mA-70mA \text{ (Note)}$
Load Regulation	ΔV_o		20mV	90mV	$I_o=1mA-100mA, T_j=25^\circ C,$
			10mV	45mV	$I_o=1mA-40mA, T_j=25^\circ C,$
Line regulation	ΔV_o		90mV 100mV	200mV 150mV	$11.5V \leq V_1 \leq 24V, T_j=25^\circ C$ $13V \leq V_1 \leq 24V, T_j=25^\circ C$
Quiescent Current	I_q ΔI_q		2.0mA	6.0mA	$13V \leq V_1 \leq 24V$
				1.5mA	
Quiescent Current Change	ΔI_q			0.1mA	$1mA \leq I_o \leq 40mA$
Output Noise Voltage	V_N		49uV		$10Hz \leq f \leq 100KHz$
Ripple Rejection	RR		38dB	44dB	$12V \leq V_1 \leq 23V, f=120Hz, T_j=25^\circ C$
Dropout Voltage	V_d		1.7V		$T_j=25^\circ C$

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

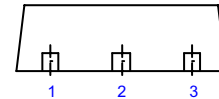
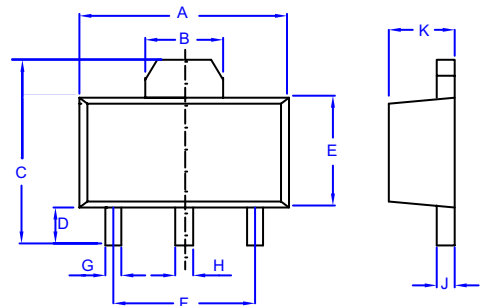
Typical Application:



MC78L09F

Three-Terminal Low Current Positive Voltage Regulator

SOT-89



1. OUT
2. GND
3. IN

DIM	DIMENSIONS				NOTES
	INCHES		MM		
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
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	



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Ordering Information

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

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