



Micro Commercial Components

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# MC79L09F

## Features

- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required

## Three-Terminal Low Current Negative Voltage Regulator

### Absolute Maximum Ratings

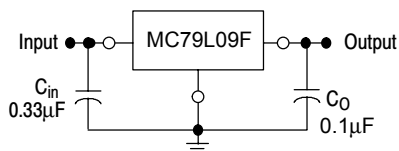
Parameter	Symbol	Value	Unit
Input Voltage	$V_1$	30	V
Operating Junction Temperature	$T_{OPR}$	-30---+75	°C
Storage Temperature Range	$T_{STG}$	-40---+125	°C

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

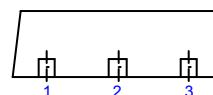
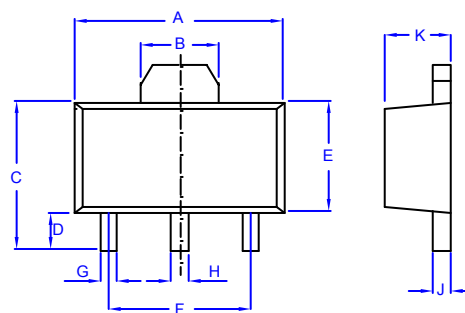
Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	$V_o$	8.64V	9.0V	9.36V	$V_i=15V$ , $I_o=40mA$
Load Regulation	$V_o - I_o$		12mV	90mV	$I_o=1mA-100mA$ , $V_i=15V$
Line regulation	$V_o - V_i$		27mV	200mV	$12.5V \leq V_i \leq 24V$ , $I_o=40mA$
Quiescent Current	$I_q$		3.5mA	6.0mA	$V_i=15V$ , $I_o=40mA$
Output Noise Voltage	$V_N$		210 $\mu V$		$10Hz \leq f \leq 100KHz$ , $V_i=15V$ , $I_o=40mA$
Ripple Rejection	RR	37dB	64dB		$12V \leq V_1 \leq 22V$ , $I_o=40mA$ , $f=120Hz$ , $T_j=25^\circ C$ , $e_{IN}=1V_{P-P}$

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

Typical Application:



## SOT-89



1. GND
2. IN
3. OUT

DIM	DIMENSIONS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.19	
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	