

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









Micro Commercial Components



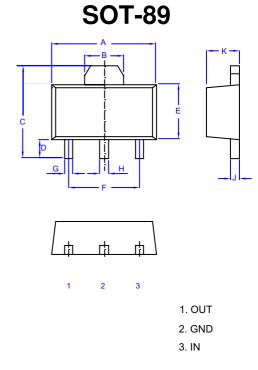
Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

Phone:(818)-701-4933 Fax: (818)-701-4939

MC78L08F

Three-Terminal Low Current Positive

Voltage Regulator SOT-89



DIMENSINS						
DIM	INCHES		M	NOTES		
	MIN	MAX	MIN	MAX		
Α	.173	.181	4.39	4.60		
В	.063	.071	1.60	1.80		
С	.154	.165	3.91	4.25		
D	.031	.039	0.80	1.00		
Е	.092	.100	2.34	2.54		
F	.118		3.00		TYP	
G	.013	.019	0.33	0.48		
Н	.015	.021	0.38	0.53		
J	.015	.016	0.38	0.41		
K	.055	.063	1.40	1.60		

Features

- Maximum Output current lo:0.1A 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
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

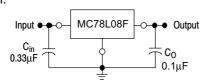
Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	V
Operating Junction Temperature	T _{OPR}	-20+120	$^{\circ}\mathbb{C}$
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}\mathbb{C}$

Electrical Characteristics(V:=14V, I:=40mA, 0°C <Tj<125°C, C1=0.33uf. C₀=0.1uf. unless otherwise specified)

Parameter	Sym	Min	Тур	Max	Test conditions
	V ₀	7.7V	8.0V	8.3V	T _j =25°C
Output Voltage		7.6V		8.4V	$10.5V \le V_1 \le 23V$, $I_0=1mA-40mA$
9-		7.6V		8.4V	$10.5V \le V_1 \le V_{MAX}$, $I_0=1mA-70mA$ (Note)
Load Regulation	△V₀		15mV	80mV	I _o =1mA-100mA, T _j =25°C,
			8.0mV	40mV	I _o =1mA-70mA, T _j =25°C,
Line regulation	△V₀		10mV 8.0mV	175mV 125mV	$\begin{array}{l} 10.5V \! \leq \! V_1 \! \leq \! 23V, T_j \! = \! 25^{\circ}C \\ 11V \! \leq \! V_1 \! \leq \! 23V, T_j \! = \! 25^{\circ}C \end{array}$
Quiescent Current	I_{q} $\triangle I_{q}$		2.0mA	5.5mA 1.5mA	11V≦V₁≦23V
Quiescent Current Change	$\triangle I_q$			0.1mA	1mA≦I₀≦40mA
Output Noise Voltage	V _N		49uV		10Hz≦f≦100KHz
Ripple Rejection	RR	39dB	70dB		11V≦V ₁ ≦23V f=120Hz, T _j =25°C
Dropout Voltage	V _d		1.7V		T _j =25°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:





Ordering Information:

Device	Packing		
Part Number-TP	Tape&Reel 1 Kpcs/Ree1		

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.