

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



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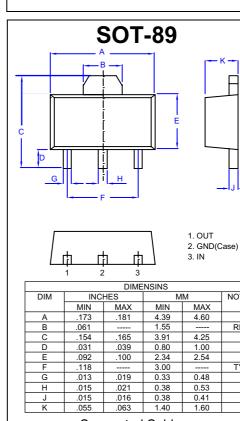
Phone:(818)-701-4933 Fax: (818)-701-4939

MC78L05F

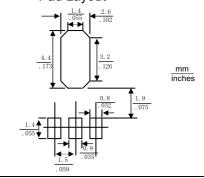
Current Positive

Voltage Regulator

Three-Terminal Low



Suggested Solder Pad Layout



NOTES

REF.

TYP

Features

- Halogen free available upon request by adding suffix "-HF" 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

Maximum Ratings

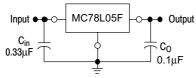
muximum natingo						
Parameter	Symbol	Value	Unit			
Input Voltage (Vo=5.8V)	V ₁	30	٧			
Operating Junction Temperature	T _{OPR}	-20+120	$^{\circ}\mathbb{C}$			
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}\mathbb{C}$			

Electrical Characteristics(V_i=10V, I₀=40mA, 0 °C <Tj<125 °C, C1=0.33uF, C₀=0.1uF, unless otherwise specified)

Sym	Min	Typ	May	Test conditions
Oylli				
V_0	4.8V	5.0V	5.2V	T _j =25°C
	4.7V		5.25V	7V≦V ₁ ≦20V,
	5.0V			I _o =1mA-40mA
	4.7V		E 25V	$7V \leq V_1 \leq V_{MAX}$
	5.0V		5.25V	I _o =1mA-700mA (Note)
		11m\/	60mV	I _o =1mA-100mA,
∧V.		111111		T _j =25°C,
△ • 0		5.0mV	30mV	I _o =1mA-40mA,
				T _j =25°C
$\triangle V_o$				7V≦V ₁ ≦20V, T _j =25°C
		6mV	100mV	8V≦V₁≦20V, Tj=25°C
Ιq		2.0mA	5.5mA	
$\triangle I_q$			1.5mA	8V≦V ₁ ≦20V
$\triangle I_{\alpha}$			0.1mA	1mA≦I₀≦40mA
\ /		40\		1011= < f < 100KH=
V _N		4υμν		10Hz≦f≦100KHz
Ripple Rejection RR 41dB 80dB	004D		8V≦V ₁ ≦20V	
		f=120Hz, T _i =25°C		
٧.		1 7\/		T _i =25°C
v d		1.7 V		1j-25 C
		4.8V 4.7V 5.0V 4.7V 5.0V	$V_{0} = \begin{cases} 4.8V & 5.0V \\ 4.7V \\ 5.0V & \\ 4.7V \\ 5.0V & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $	$V_{0} = \begin{cases} 4.8V & 5.0V & 5.2V \\ 4.7V & 5.0V \\ 4.7V & 5.0V \end{cases}$ $\frac{4.7V}{5.0V} = \begin{cases} 5.25V \\ 5.25V \\ 5.0V \\ 5.0W \end{cases}$ $\frac{4.7V}{5.0V} = \begin{cases} 11mV & 60mV \\ 5.0mV & 30mV \\ 6mV & 100mV \\ 100mV \\ 100mV \\ 100mV \\ 100mV \end{cases}$ $\frac{1}{Q} = \begin{cases} 2.0mA & 5.5mA \\ 1.5mA \\ 1.5mA \\ 0.1mA \\ V_{N} & 40\muV \\ RR & 41dB & 80dB \\ V_{d} & 1.7V \\ \end{cases}$

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

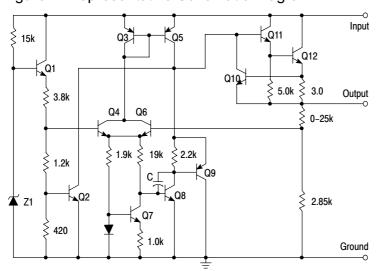
Typical Application:



MC78L05F



Figure 1. Representative Schematic Diagram





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel1Kpcs/Reel

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

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