

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC) MC78L05F-TP

For any questions, you can email us directly: sales@integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

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MC78L05F

Halogen free available upon request by adding suffix "-HF" Maximum Output current I₀:0.1A

- 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

Features

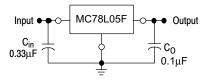
maximum natingo					
Parameter	Symbol	Value	Unit		
Input Voltage (Vo=5.8V)	V ₁	30	V		
Operating Junction Temperature	T _{OPR}	-20+120	$^{\circ}\mathbb{C}$		
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}\mathbb{C}$		

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

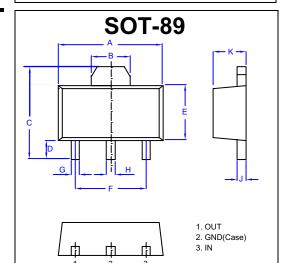
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Parameter	Sym	Min	Тур	Max	Test conditions
Output Voltage	V ₀	4.8V	5.0V	5.2V	T _j =25°C
		4.7V		5.25V	7V≦V ₁ ≦20V,
		5.0V		3.23V	I₀=1mA-40mA
, and the second		4.7V		5.25V	$7V \leq V_1 \leq V_{MAX}$
		5.0V			I₀=1mA-700mA (Note)
Load	△V₀		11mV	60mV	l₀=1mA-100mA, Tj=25°C,
Regulation	∠ ∨ ₀		5.0mV	30mV	I _o =1mA-40mA, T _i =25°C
Line	$\triangle V_o$		8mV	150mV	7V≦V ₁ ≦20V, T _j =25°C
regulation			6mV	100mV	$8V \le V_1 \le 20V$, $T_j = 25^{\circ}C$
Quiescent	I _q		2.0mA	5.5mA	
Current	$\triangle I_q$			1.5mA	8V≦V ₁ ≦20V
Quiescent Current Change	$\triangle I_q$			0.1mA	1mA≦I₀≦40mA
Output Noise Voltage	V_N		40μV		10Hz≦f≦100KHz
Ripple Rejection	RR	41dB	80dB		8V≦V₁≦20V 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:

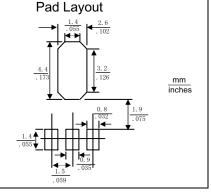


Three-Terminal Low Current Positive Voltage Regulator



DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
Α	.173	.181	4.39	4.60	
В	.061		1.55		REF.
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	

Suggested Solder



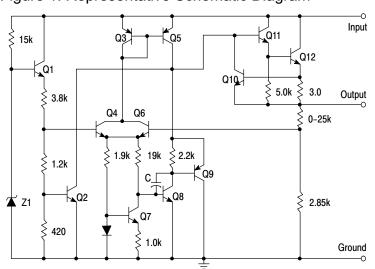
Pevision: C



MC78L05F



Figure 1. Representative Schematic Diagram



Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of MC78L05F-TP - IC REG LDO 5V 0.1A SOT89

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components

Ordering Information:

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

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

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