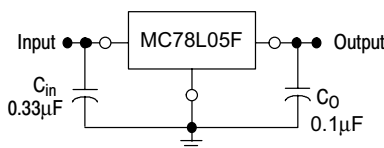


- Halogen free available upon request by adding suffix "-HF"
- Maximum Output current $I_o:0.1A$
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

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

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	4.8V	5.0V	5.2V	$T_j=25^{\circ}\text{C}$
		4.7V 5.0V		5.25V	$7V \leq V_1 \leq 20V$, $I_o=1\text{mA}-40\text{mA}$
		4.7V 5.0V		5.25V	$7V \leq V_1 \leq V_{\text{MAX}}$, $I_o=1\text{mA}-700\text{mA}$ (Note)
Load Regulation	ΔV_o		11mV	60mV	$I_o=1\text{mA}-100\text{mA}$, $T_j=25^{\circ}\text{C}$
			5.0mV	30mV	$I_o=1\text{mA}-40\text{mA}$, $T_j=25^{\circ}\text{C}$
Line regulation	ΔV_o		8mV 6mV	150mV 100mV	$7V \leq V_1 \leq 20V$, $T_j=25^{\circ}\text{C}$ $8V \leq V_1 \leq 20V$, $T_j=25^{\circ}\text{C}$
Quiescent Current	I_q ΔI_q		2.0mA	5.5mA 1.5mA	$8V \leq V_1 \leq 20V$
Quiescent Current Change	ΔI_q			0.1mA	$1\text{mA} \leq I_o \leq 40\text{mA}$
Output Noise Voltage	V_N		40 μV		$10\text{Hz} \leq f \leq 100\text{KHz}$
Ripple Rejection	RR	41dB	80dB		$8V \leq V_1 \leq 20V$ $f=120\text{Hz}$, $T_j=25^{\circ}\text{C}$
Dropout Voltage	V_d		1.7V		$T_j=25^{\circ}\text{C}$

Typical Application:



The drawing shows a 3-pin connector with the following dimensions and features:

- Dimensions:** A (Total width), B (Top width), C (Total height), D (Pin height), E (Body height), F (Pin pitch), G (Pin width), H (Pin spacing), J (Pin length), K (Pin length).
- Pinout Table:**

Pin	Function
1	OUT
2	GND(Case)
3	IN

DIMENSIONS					NOTES
DIM	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
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	

Technical drawing of a mechanical part, showing two views: a front view (top) and a side view (bottom). Dimensions are provided in millimeters (mm) and inches.

Front View (Top):

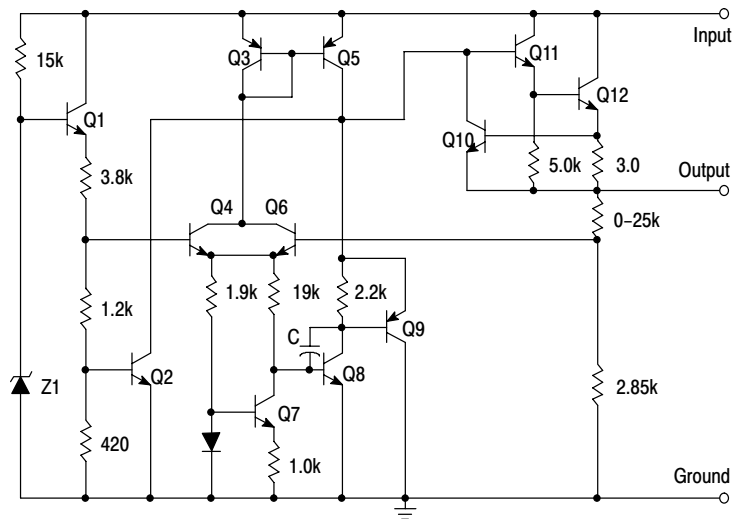
- Overall width: 1.4 mm / .055 inches
- Overall height: 4.4 mm / .173 inches
- Top width (excluding fillets): 2.6 mm / .102 inches
- Top width (including fillets): 1.4 mm / .055 inches
- Bottom width (excluding fillets): 3.2 mm / .126 inches
- Bottom width (including fillets): 4.4 mm / .173 inches

Side View (Bottom):

- Overall width: 1.4 mm / .055 inches
- Overall height: 1.9 mm / .075 inches
- Top width (excluding fillets): 0.8 mm / .032 inches
- Top width (including fillets): 1.4 mm / .055 inches
- Bottom width (excluding fillets): 0.9 mm / .035 inches
- Bottom width (including fillets): 1.4 mm / .055 inches

MC78L05F

Figure 1. Representative Schematic Diagram



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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Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com