



**THE DATASHEET OF  
MC79L05F-TP**





# MC79L05F

## Three-Terminal Low Current Negative Voltage Regulator

### Features

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

### Absolute Maximum Ratings

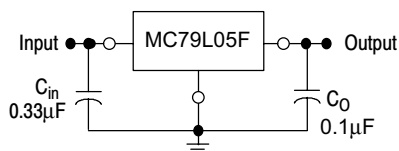
Parameter	Symbol	Value	Unit
Input Voltage	$V_{in}$	-30	V
Operating Junction Temperature	$T_{OPR}$	-30---+75	°C
Storage Temperature Range	$T_{STG}$	-40---+125	°C

### Electrical Characteristics ( $V_i$ =10V, $I_o$ =40mA, $0^\circ\text{C} < T_j < 125^\circ\text{C}$ , $C_1=0.33\mu\text{F}$ , $C_0=0.1\mu\text{F}$ , unless otherwise specified)

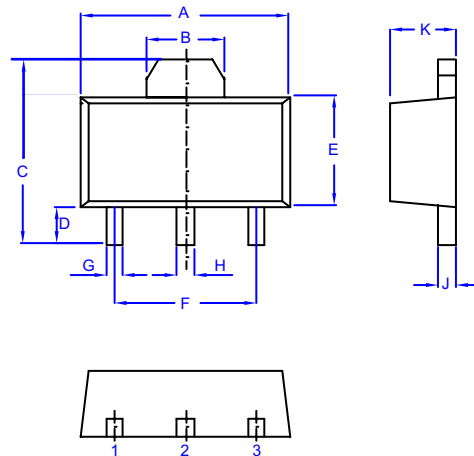
Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	$V_o$	-4.8V	-5.0V	-5.2V	$V_i=-10V, I_o=40mA$
Load Regulation	$V_o - I_o$		7.0mV	60mV	$I_o=1mA-100mA, V_i=-10V$
Line regulation	$V_o - V_i$		15mV	150mV	$-7V \leq V_i \leq -20V, I_o=40mA$
Quiescent Current	$I_q$		3.5mA	6.0mA	$V_i=-10V, I_o=40mA$
Output Noise Voltage	$V_N$		120 $\mu$ V		$10\text{Hz} \leq f \leq 100\text{KHz}$ $V_i=-10V, I_o=40mA$
Ripple Rejection	RR	41dB	71dB		$-8V \leq V_i \leq -18V, I_o=40mA$ $f=120\text{Hz}, T_j=25^\circ\text{C}$ $e_{IN}=1V_{P-P}$

\*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 (Case)
3. OUT

DIM	DIMENSINS				NOTES
	INCHES		MM		
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	



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### 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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