Micro Commercial Components

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MC79L06F

Three-Terminal Low Current Negative Voltage Regulator

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Maximum Output current I_O:0.1A
- 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"

Absolute Maximum Ratings

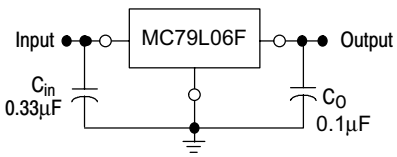
Parameter	Symbol	Value	Unit
Input Voltage	V_1	-30	V
Operating Junction Temperature	T_{OPR}	-30---+75	°C
Storage Temperature Range	T_{STG}	-40---+125	°C

Electrical Characteristics(V_i=12V, I_o=40mA, 0 °C <Tj<125 °C, C1=0.33uF, C_o=0.1uF, unless otherwise specified)

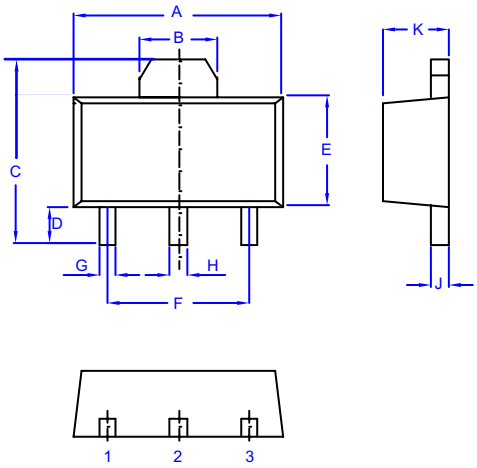
Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_0	-5.76V	-6.0V	-6.24V	Vi=-12V, I_O=40mA
Load Regulation	V_o -I_O		7.0mV	60mV	I_o=1mA-100mA, V_i=-12V
Line regulation	V_o - V_i		15mV	150mV	-8.5V≦V_i≦-20V, I_O=40mA
Quiescent Current	I_q		3.5mA	6.0mA	Vi=-12V, I_O=40mA
Output Noise Voltage	V_N		120μV		10Hz≦f≦100KHz Vi=-12V, I_O=40mA
Ripple Rejection	RR	41dB	71dB		-9V≦V_1≦-19V, I_O=40mA f=120Hz, T_j=25°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

DIMENSINS					
DIM	INCHES		MM		NOTES
	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	

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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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