Three-Terminal Low Current Negative Voltage Regulators

Features

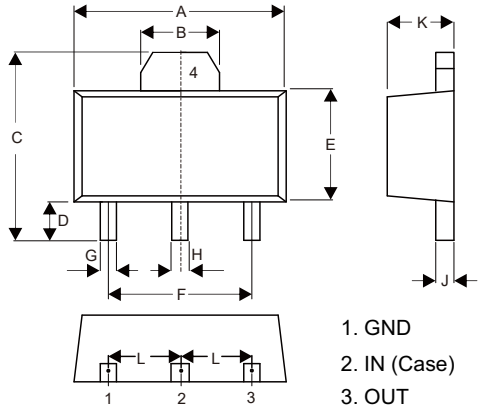
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- No External Components Required
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. “Green” Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	V
Maximum Output Current	I_o	0.1	A
Operating Junction Temperature Range	T_{opr}	-30~75	℃
Storage Temperature Range	T_{STG}	-40~125	℃

Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

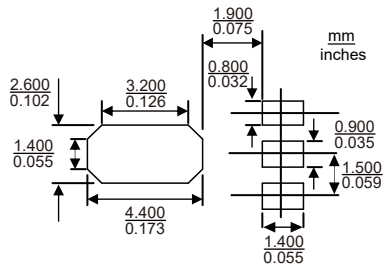
SOT-89



1. GND
2. IN (Case)
3. OUT

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.061		1.55		TYP.
C	0.154	0.171	3.91	4.35	
D	0.031	0.047	0.80	1.20	
E	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
H	0.015	0.021	0.38	0.53	
J	0.014	0.017	0.35	0.44	
K	0.055	0.063	1.40	1.60	
L	0.059		1.50		TYP.

Suggested Solder Pad Layout

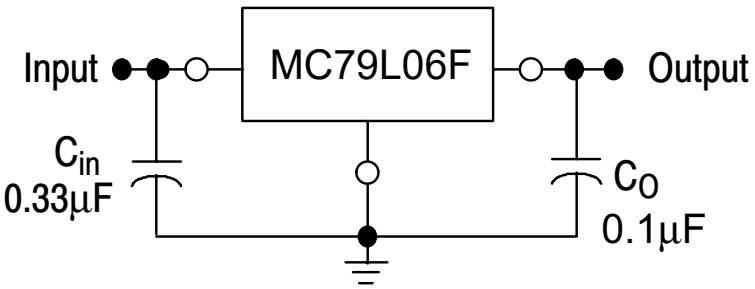


Electrical Characteristics

(V_i=12V, I_o=40mA, 0°C＜T_j＜ 125 °C,C_i=0.33uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_o	V_i=-12V, I_O=40mA	-5.76	-6.0	-6.24	V
Load Regulation	V_O-I_O	I_O=1mA-100mA, V_i=-12V	-	7.0	60	mV
Line Regulation	V_O-V_i	-8.5V≤V_i≤-20V, I_O=40mA	-	15	150	mV
Quiescent Current	Iq	V_i=-12V, I_O=40mA	-	3.5	6.0	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz V_i=-12V, I_o=40mA	-	120	-	μV
Ripple Rejection	RR	-9V≤V_1≤-19V, I_o=40mA f=120Hz, T_j=25℃ e_{iN}=1V_{P-P}	41	71	-	dB

Typcial Application



Ordering Information

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

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