

Features

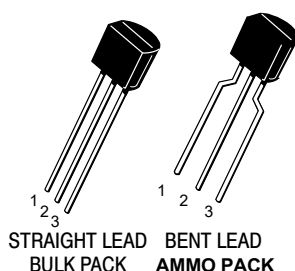
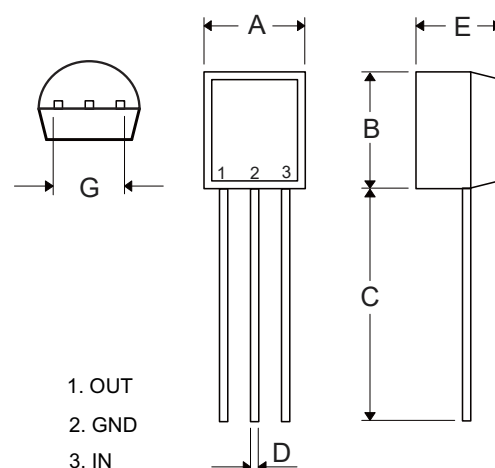
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- No External Components Required
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_i	30	V
Operating Junction Temperature Range	T_{opr}	-30~75	°C
Storage Temperature Range	T_{STG}	-40~125	°C

Three-Terminal Low Negative Voltage Regulators

TO-92



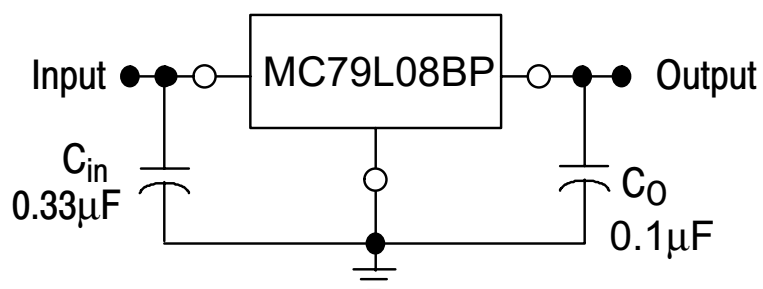
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B	0.169	0.185	4.30	4.70	
C	0.500	-----	12.70	-----	
D	0.015	0.022	0.38	0.55	
E	0.130	0.146	3.30	3.70	
G	0.095	0.105	2.42	2.67	Straight Lead
	0.173	0.220	4.40	5.60	Bent

Electrical Characteristics

($V_i=14V$, $I_o=40mA$, $0^{\circ}C < T_j < 125^{\circ}C$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_o	$V_i=14V$, $I_o=40mA$	7.68	8.0	8.32	V
Load Regulation	V_o-I_o	$I_o=1mA-100mA$, $V_i=14V$	-	10	80	mV
Line Regulation	V_o-V_i	$10.5V \leq V_i \leq 23V$, $I_o=40mA$	-	24	175	mV
Quiescent Current	I_q	$V_i=14V$, $I_o=40mA$	-	3.5	6.0	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$ $V_i=14V$, $I_o=40mA$	-	190	-	μV
Ripple Rejection	RR	$11V \leq V_i \leq 21V$, $I_o=40mA$ $f=120Hz$, $T_j=25^{\circ}C$ $e_{iN}=1V_{P-P}$	39	68	-	dB

Typcial Application



Ordering Information

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-BP-HF
Adding "-HF" Suffix for Halogen Free, eg. Part Number-AP-HF

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