

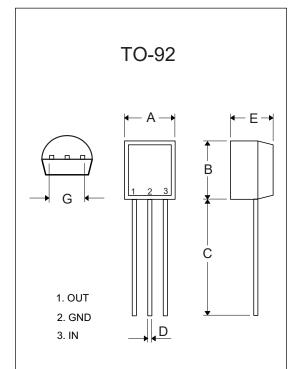
Features

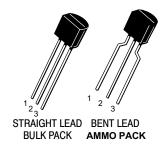
- · Internal Thermal Overload Protection
- · Internal Short Circuit Current Limiting
- · No External Components Required
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix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

Three-Terminal Low Current Positive Voltage Regulators

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	V
Operating Junction Temperature Range	T _{opr}	-20~120	°C
Storage Temperature Range	T _{STG}	-55~150	°C





DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.169	0.185	4.30	4.70		
В	0.169	0.185	4.30	4.70		
С	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	
G	0.173	0.220	4.40	5.60	Bent	



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	Тур	Max	Unit
Output Voltage		T _j =25°C	5.75	6.0	6.25	V
	Vo	8.5V≤V₁≤20V, I₀=1mA-40mA	5.7	-	6.3	V
		$8.5V \le V_1 \le V_{MAX}$ $I_0 = 1 \text{mA-}70 \text{mA}(\text{Note1})$	5.7	-	6.3	V
Load Regulation	437	I _o =1mA-100mA,T _j =25°C	-	12.8	80	mV
	△Vo	I _o =1mA-70mA, T _j =25°C	-	5.8	40	mV
Line Regulation	ΔVo	8.5V≤V₁≤20V,T¡=25°C	-	64	175	mV
	Δνο	9.0V≤V₁≤20V,Tj=25°C	-	54	125	mV
Quiescent Current	lq		-	3.9	6.0	mA
Quiescent Current Change		9V≤V₁≤20V	-	-	1.5	mA
	$\triangle I_q$	1mA≤I₀≤40mA	-	-	0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	-	49	-	μV
Ripple Rejection	RR	8V≤V ₁ ≤20V,f=120Hz,T _j =25°C	41	46	-	dB
Dropout Voltage	V _d	T _j =25°C	-	1.7	-	V

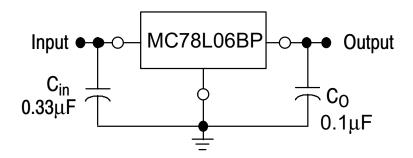
Note:

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^{1.} Bypass Capacitors are Recommended for Optimum Stability and Transient Response and should be Located as Close as Possible to The Regulators



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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