

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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Features

- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

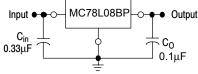
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	30	٧
Operating Junction Temperature	T _{OPR}	-20+120	$^{\circ}\!\mathbb{C}$
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}$ C

Electrical Characteristics(V_i =14V, I_0 =40mA, 0 °C <Tj<125 °C, C1=0.33uF, C_0 =0.1uF, unless otherwise specified)

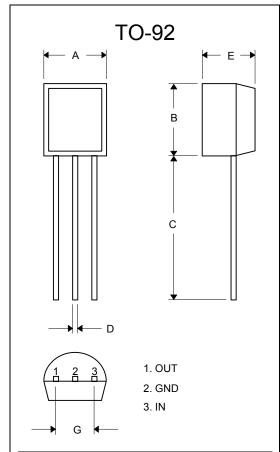
Parameter	Sym	Min	Тур	Max	Test conditions
Output Voltage	V ₀	7.7V	8.0V	8.3V	T _j =25°C
		7.6V		8.4V	$10.5V \le V_1 \le 23V$, $I_o=1mA-40mA$
		7.6V		8.4V	$10.5V \le V_1 \le V_{MAX}$, $I_0=1mA-70mA$ (Note)
Load Regulation	△V₀		15mV	80mV	I _o =1mA-100mA, T _j =25°C,
			8.0mV	40mV	l₀=1mA-70mA, Tj=25°C,
Line regulation	△V₀		10mV 8.0mV	175mV 125mV	$10.5V \le V_1 \le 23V$, $T_j=25^{\circ}C$ $11V \le V_1 \le 23V$, $T_j=25^{\circ}C$
Quiescent Current	l _q △l _q		2.0mA	5.5mA 1.5mA	11V≦V ₁ ≦23V
Quiescent Current Change	$\triangle I_{q}$			0.1mA	1mA≦I₀≤40mA
Output Noise Voltage	V _N		49uV		10Hz≦f≦100KHz
Ripple Rejection	RR	39dB	70dB		11V≦V₁≦23V f=120Hz, T _j =25°C
Dropout Voltage	V_d		1.7V		T _j =25°C

*Note: Bypass Capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators





Three-Terminal Low Current Positive Voltage Regulator



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.175	.185	4.45	4.70			
В	.175	.185	4.46	4.70			
С	.500		12.7				
D	.016	.020	0.41	0.63			
Е	.135	.145	3.43	3.68			
G	.095	.105	2.42	2.67			



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