



Micro Commercial Components

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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MC7912CT

Features

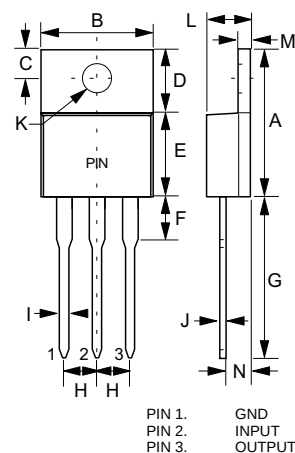
- Output current in excess of 1.0 Ampere
- No external components required
- Internal thermal overload protection
- Internal short-circuit current limiting
- Output voltage offered in 2% tolerance
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Three-Terminal Negative Voltage Regulators

Maximum Ratings @ $T_A=25^{\circ}\text{C}$, Unless Otherwise Noted

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Operating Ambient Temperature	P_D	15	W
Operating Junction Temperature	T_{OPR}	0---+150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55---+150	$^{\circ}\text{C}$

TO-220



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F	-----	.250	-----	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	Ø
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

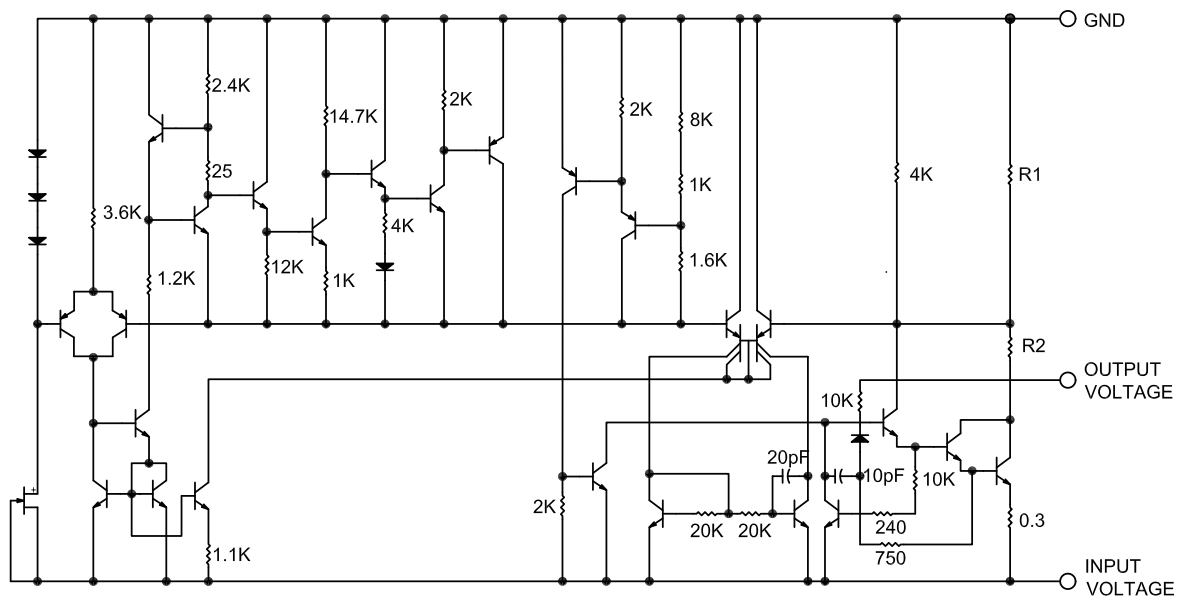
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Electrical Characteristics ($V_i=19V$, $I_o=500mA$, $0^{\circ}C < T_j < 125^{\circ}C$, $C_i=2.0\mu F$, $C_o=1.0\mu F$, Unless Otherwise Specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	-11.76V	-12V	-12.24V	$T_j=25^{\circ}C$
		-11.66V		-12.34V	$-14.5V \leq V_1 \leq -27V$, $5mA \leq I_o \leq 1.0A$, $P_D=15W$
Load Regulation	ΔV_o		12mV	240mV	$5.0mA \leq I_o \leq 1.5A$, $T_j=25^{\circ}C$,
			4.0mV	120mV	$250mA \leq I_o \leq 750mA$, $T_j=25^{\circ}C$
Line regulation	ΔV_o		10mV	240mV	$-14.5V \leq V_1 \leq -30V$, $T_j=25^{\circ}C$
			3.0mV	120mV	$-16V \leq V_1 \leq -22V$, $T_j=25^{\circ}C$
Quiescent Current	I_q		2.5mA	5.0mA	$T_j=25^{\circ}C$, $I_o=0$
Quiescent Current Change	ΔI_q			1.0mA 0.5mA	$-14.5V \leq V_1 \leq -30V$ $5mA \leq I_o \leq 1.0A$
Output Noise Voltage	V_N		75 μV		$10Hz \leq f \leq 100KHz$ $T_j=25^{\circ}C$
Ripple Rejection	RR	55dB	70dB		$f=120Hz$
Dropout Voltage	V_d		1.1V		$I_o=1.0A$, $T_j=25^{\circ}C$
Peak Output Current	I_{opeak}		2.1A		$T_j=25^{\circ}C$
Temperature Coefficient of Output voltage	$\Delta V_o/\Delta T_j$		-0.8mV/ $^{\circ}C$		$0^{\circ}C \leq T_j \leq 125^{\circ}C$, $I_o=5mA$

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Representation Schematic Diagram



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

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