



Micro Commercial Components

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MC7915CT

Three-Terminal Negative Voltage Regulators

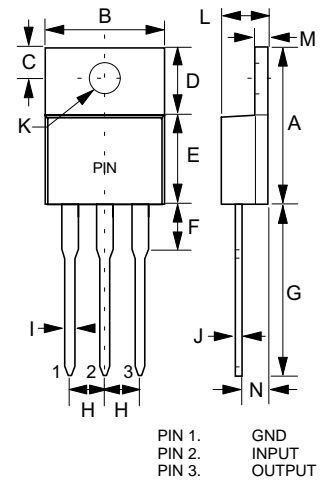
Features

- 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

Maximum Ratings @ T_A=25°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	°C
Storage Temperature Range	T _{STG}	-55----+150	°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	∅
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 (Vi=23V, Io=500mA, 0 °C<Tj<125 °C, Ci=2.0uF, Co=1.0uF, Unless Otherwise Specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	Vo	-14.7V	-15.0V	-15.3V	Tj=25°C
		-14.55V		15.45V	-17.5V ≤ V1 ≤ -30V, 5mA ≤ Io ≤ 1.0A, Pd=15W
Load Regulation	ΔVo		12mV	300mV	5mA ≤ Io ≤ 1.5A, Tj=25°C,
			4.0mV	150mV	250mA ≤ Io ≤ 750mA, Tj=25°C
Line regulation	ΔVo		11mV 3.0mV	300mV 150mV	-17.5V ≤ V1 ≤ -30V, Tj=25°C -16V ≤ V1 ≤ -22V, Tj=25°C
Quiescent Current	Iq		2.5mA	5.0mA	Tj=25°C, Io=0
Quiescent Current Change	ΔIq			1.0mA 0.5mA	-17.5V ≤ V1 ≤ -30V 5mA ≤ Io ≤ 1.0A
Output Noise Voltage	VN		90μV		10Hz ≤ f ≤ 100KHz Tj=25°C
Ripple Rejection	RR	54dB	69dB		f=120Hz
Dropout Voltage	Vd		1.1V		Io=1.0A, Tj=25°C
Peak Output Current	Iopeak		2.1A		Tj=25°C
Temperature Coefficient of Output voltage	ΔVo/ΔTj			-0.9mV/°C	0 °C ≤ Tj ≤ 125 °C, Io=5mA

