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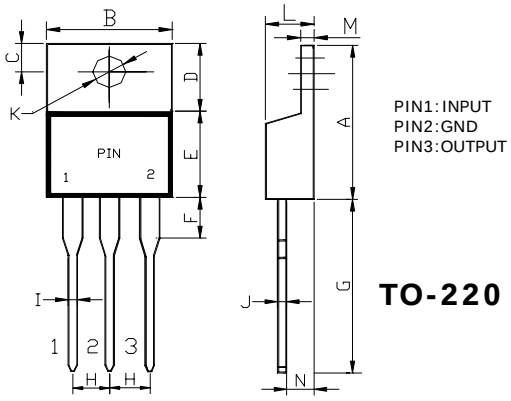
LM7805C

Three-Terminal Positive Voltage Regulators



Features

* Output current at 1.0 Ampere
* No external components required
* Internal thermal overload protection
* Internal short-circuit current limiting
* Output voltage offered in 4% tolerance

Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V1	30	V
Operating Ambient Temperature	PD	15	W
Operating Junction Temperature	TOPR	-20to+70	°C
Storage Temperature Range	TSTG	-55to+125	°C

Dimensions					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.570	0.620.	14.48	15.75	
B	0.380	0.405	9.66	10.28	
C	0.100	0.120	2.54	3.04	
D	0.235	0.255	5.97	6.48	
E	0.335	0.365	8.51	9.27	
F	0.110	0.155	2.80	3.93	
G	0.500	0.562	12.70	14.27	
H	0.095	0.105	2.42	2.66	
I	0.025	0.035	0.64	0.89	
J	0.016	0.025	0.41	0.64	
K	0.142	0.147	3.61	3.37	ф
L	0.160	0.190	4.06	4.82	
M	0.045	0.055	1.14	1.39	
N	0.102 typ		2.6 typ		

Mechanical Data

* Case: TO-220AB Molded Plastic
* Terminals: Plated Lead Solderable per MIL-STD-202, Method 208
* Marking: Type Number
* Weight: 2.24 grams (approx)

Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Test conditions
Output Voltage	Vo	4.8V	5.0V	5.2V	Tj=25°C
Load Regulation	△Vo		15mV	100mV	5mA≤Io≤1.5A , Tj=25°C
			5.0mV	50mV	250mA≤Io≤750mV , Tj=25°C
Line regulation	△Vo		3.0mV	100mV	7V≤V1≤25V, Tj=25°C
			1.0mV	50mV	8V≤V1≤12V, Tj=25°C
Quiescent Current	Iq		4.2mA	8.0mA	Tj=25°C,Io=0
Quiescent Current Change	△Iq			1.3mA 0.5mA	7V≤V1≤25V 5mA≤Io≤1.0A
Output Noise Voltage	VN		40 μ V		f=120Hz
Ripple Rejection	RR	62dB	78dB		8V≤V1≤20V , f=120Hz, Tj=25°C
Output Short Circuit Current	Ro		17mohm		f=1.0KHz
Output Short Circuit Current	Ios		750mA		Tj=25°C
Peak Output Current	Iopeak		2.2A		Tj=25°C
Temperature Coefficient of Output Voltage	△Vo/△Tj		1.1mV/°C		0°C≤V1≤125°C , Io=5mA