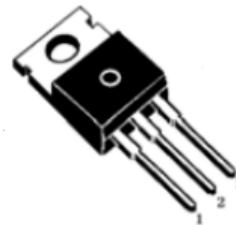


7805-1.5A

3 TERMINAL 1.5A POSITIVE VOLTAGE REGULATORS

FEATURES

1. Internal Thermal Overload Protection.
2. Internal Short Circuit Current Limiting.
3. Output Current up to 1.5A.



1.Input 2.Gnd 3.Output

Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified, Tamb=25 °C)

CHARACTERISTICS	SYMBOL	Value	UNITS
Input Voltage	V _{IN}	35	V
Output Current	I _{OUT}	1.5	A
Operating Temperature Range	T _{opr}	-20~125	°C
Storage Temperature Range	T _{stg}	-55~150	°C

Operating Conditions: Vi=10V, Io=500mA, Ci=0.33μF, Co=0.1μF, 0°C< Tj <125°C Unless otherwise specified

Parameter Name	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V _O	T _j =25°C	4.80	5.00	5.20	V
		7V≤Vi≤20V, Io=5mA~1.0A	4.75		5.25	V
Load Regulation	ΔV _O	T _j =25°C; Io=5mA~1.5A		9	100	mV
		T _j =25°C; Io=250mA~750mA		4	50	mV
Line Regulation	ΔV _O	T _j =25°C; 7V≤Vi≤25V		4	100	mV
		T _j =25°C; 8V≤Vi≤12V		1.6	50	mV
Quiescent Current	I _Q	T _j =25°C; Io=0mA		5.0	8	mA
Quiescent Current Change	ΔI _Q	7V≤Vi≤25V			1.3	mA
		5mA≤Io≤1.0A			0.5	mA
Output Noise Voltage	e _N	f=10Hz to 100kHz, Ta=25°C		42		μV
Temperature Coefficient of Output Voltage	ΔV _O /ΔT	Io=5mA		0.8		mV/°C
Ripple Rejection Ratio	RR	8V≤Vi≤18V; f=120Hz; T _j =25°C	62	73		dB
Dropout Voltage	V _d	Io=1.0A, T _j =25°C		2		V
Output resistance	R _O	f=1kHz		15		mΩ
Short circuit current	I _{SC}	Vi=35V, Ta=25°C		230		mA
peak current	I _{pk}	T _j =25°C		2.2		A

Typical Characteristics

