WEJ®

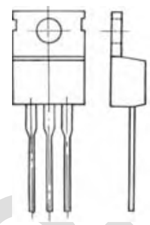
RoHS

WEJ7805

WEJ7805 Three-terminal positive voltage regulator

TO-220

1. IN
2. GND
3. OUT



FEATURES

Maximum Output current

I_{OM}: 1 A

Output voltage

V_o: 5 V

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0~+125	℃
Storage Temperature Range	T_{STG}	-65~+150	℃

ELECTRICAL CHARACTERISTICS (Vi=10V,Io=500mA,0℃<Tj<125℃,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	4.8	5.0	5.2	V
		7V≤V $_i$≤20V, Io=5mA~1A Po< 15W	4.75	5.00	5.25	V
Load Regulation	ΔVo	Tj=25℃, Io=5mA~1.5A		9	100	mV
		Tj=25□, Io=250mA~750mA		4	50	mV
Line regulation	ΔVo	7V≤V $_i$≤25V, Tj=25℃		4	100	mV
		8V≤V $_i$≤12V, Tj=25℃		1.6	50	mV
Quiescent Current	Iq	Tj=25℃		4	6	mA
Quiescent Current Change	ΔIq	7V≤V $_i$≤25V		0.3	1.3	mA
	ΔIq	5mA≤I $_O$≤1A		0.03	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		40		uV
Ripple Rejection	RR	8V≤V $_i$≤18V,f=120Hz,Tj=25℃	62			dB
Dropout Voltage	Vd	Tj=25℃, Io=1A		2		V
Short Circuit Current	Isc	Vi=35V, Ta=25℃		300		mA
Peak Current	Ipk	Tj=25℃		2.2		A

TYPICAL APPLICATION