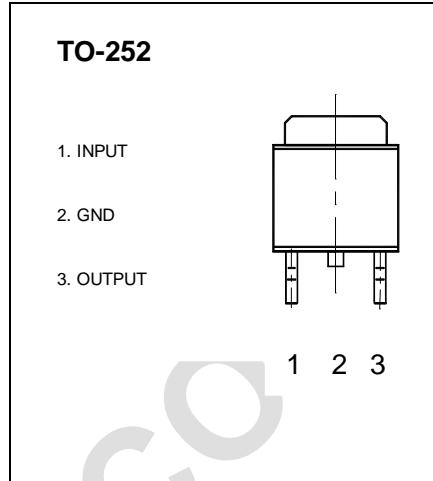


WEJ78M05 Three-terminal positive voltage regulator**FEATURES**

Maximum Output current

I_{OM}: 0.5 A

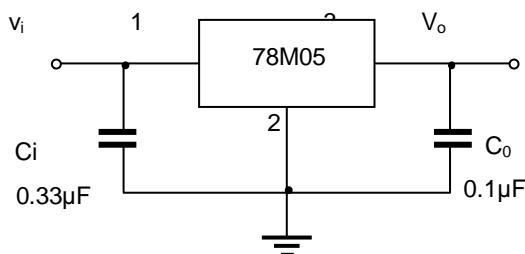
Output voltage

V_o: 5 V**ABSOLUTE MAXIMUM RATINGS** (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V _i	7~25	V
Storage Temperature Range	T _{stg}	-85 to 150	°C

ELECTRICAL CHARACTERISTICS (V_i=10V, I_O=350mA, 0°C < T_j < 125°C, C₁=0.33μF, C₀=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V _o	T _j =25°C	4.8	5.0	5.2	V
		7V ≤ V _i ≤ 20V, I _O =5mA~350mA	4.75	5	5.25	V
Load Regulation	ΔV _o	T _j =25°C, I _O =5mA~500mA			100	mV
		T _j =25°C, I _O =5mA~200mA			50	mV
Line regulation	ΔV _o	7V ≤ V _i ≤ 25V, I _O =200mA, T _j =25°C			100	mV
		8V ≤ V _i ≤ 25V, I _O =200mA, T _j =25°C			50	mV
Quiescent Current	I _q	T _j =25°C			6	mA
Quiescent Current Change	ΔI _q	8V ≤ V _i ≤ 25V, I _O =200mA			0.8	mA
	ΔI _q	5mA ≤ I _O ≤ 350mA			0.5	mA
Output Noise Voltage	V _N	10Hz ≤ f ≤ 100KHz, T _j =25°C		40		μV
Dropout Voltage	V _d	T _j =25°C		0.7		V

TYPICAL APPLICATION

Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.