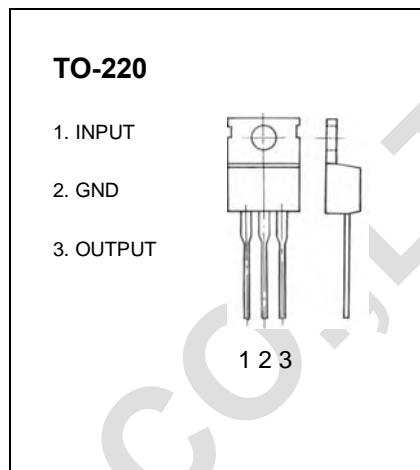


WEJ78M05 Three-terminal positive voltage regulator**FEATURES**

Maximum Output current

 I_{OM} : 0.5 A

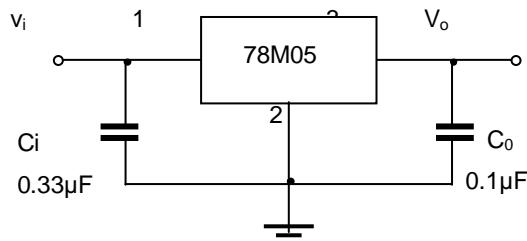
Output voltage

 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 ($V_i=10V, I_o=350mA, 0°C < T_j < 125°C, C1=0.33\mu F, C0=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^\circ C$	4.8	5.0	5.2	V
		$7V \leq V_i \leq 20V, I_o=5mA \sim 350mA$	4.75	5	5.25	V
Load Regulation	ΔV_o	$T_j=25^\circ C, I_o=5mA \sim 500mA$			100	mV
		$T_j=25^\circ C, I_o=5mA \sim 200mA$			50	mV
Line regulation	ΔV_o	$7V \leq V_i \leq 25V, I_o=200mA, T_j=25^\circ C$			100	mV
		$8V \leq V_i \leq 25V, I_o=200mA, T_j=25^\circ C$			50	mV
Quiescent Current	I_q	$T_j=25^\circ C$			6	mA
Quiescent Current Change	ΔI_q	$8V \leq V_i \leq 25V, I_o=200mA$			0.8	mA
	ΔI_q	$5mA \leq I_o \leq 350mA$			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz, T_j=25^\circ C$		40		μV
Dropout Voltage	V_d	$T_j=25^\circ C$		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.