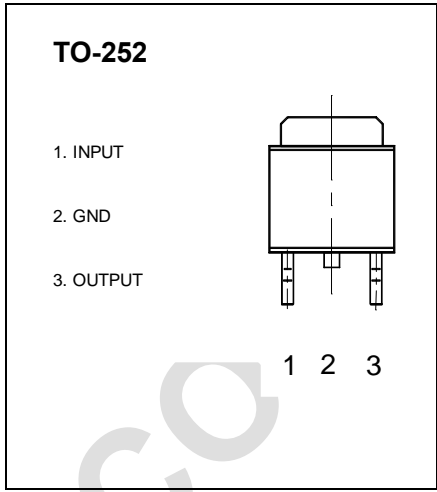


WEJ78M06 Three-terminal positive voltage regulator

FEATURES

Maximum Output current
 $I_{OM} : 0.5 \text{ A}$
 Output voltage
 $V_o : 6 \text{ V}$



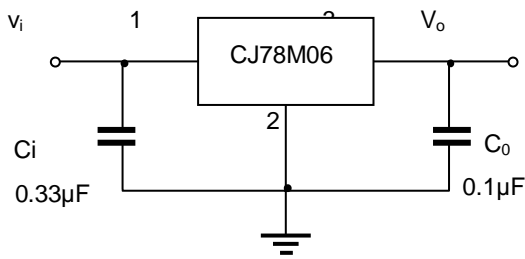
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	8~25	V
Storage Temperature Range	T_{stg}	-65 to 150	°C

ELECTRICAL CHARACTERISTICS ($V_i=10V, I_o=350mA, 0^\circ C < T_j < 125^\circ C, C_1=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^\circ C$	5.75	6	6.25	V
		$8V \leq V_i \leq 21V, I_o=5mA \sim 350mA$	5.7	6	6.3	V
Load Regulation	ΔV_o	$T_j=25^\circ C, I_o=5mA \sim 500mA$			120	mV
		$T_j=25^\circ C, I_o=5mA \sim 200mA$			60	mV
Line regulation	ΔV_o	$8V \leq V_i \leq 25V, I_o=200mA, T_j=25^\circ C$			100	mV
		$9V \leq V_i \leq 25V, I_o=200mA, T_j=25^\circ C$			50	mV
Quiescent Current	I_q	$T_j=25^\circ C$			6	mA
Quiescent Current Change	ΔI_q	$9V \leq V_i \leq 25V, I_o=200mA$			0.8	mA
	ΔI_q	$5mA \leq I_o \leq 350mA$			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz, T_j=25^\circ C$		45		μV
Dropout Voltage	V_d	$T_j=25^\circ C$		2		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.