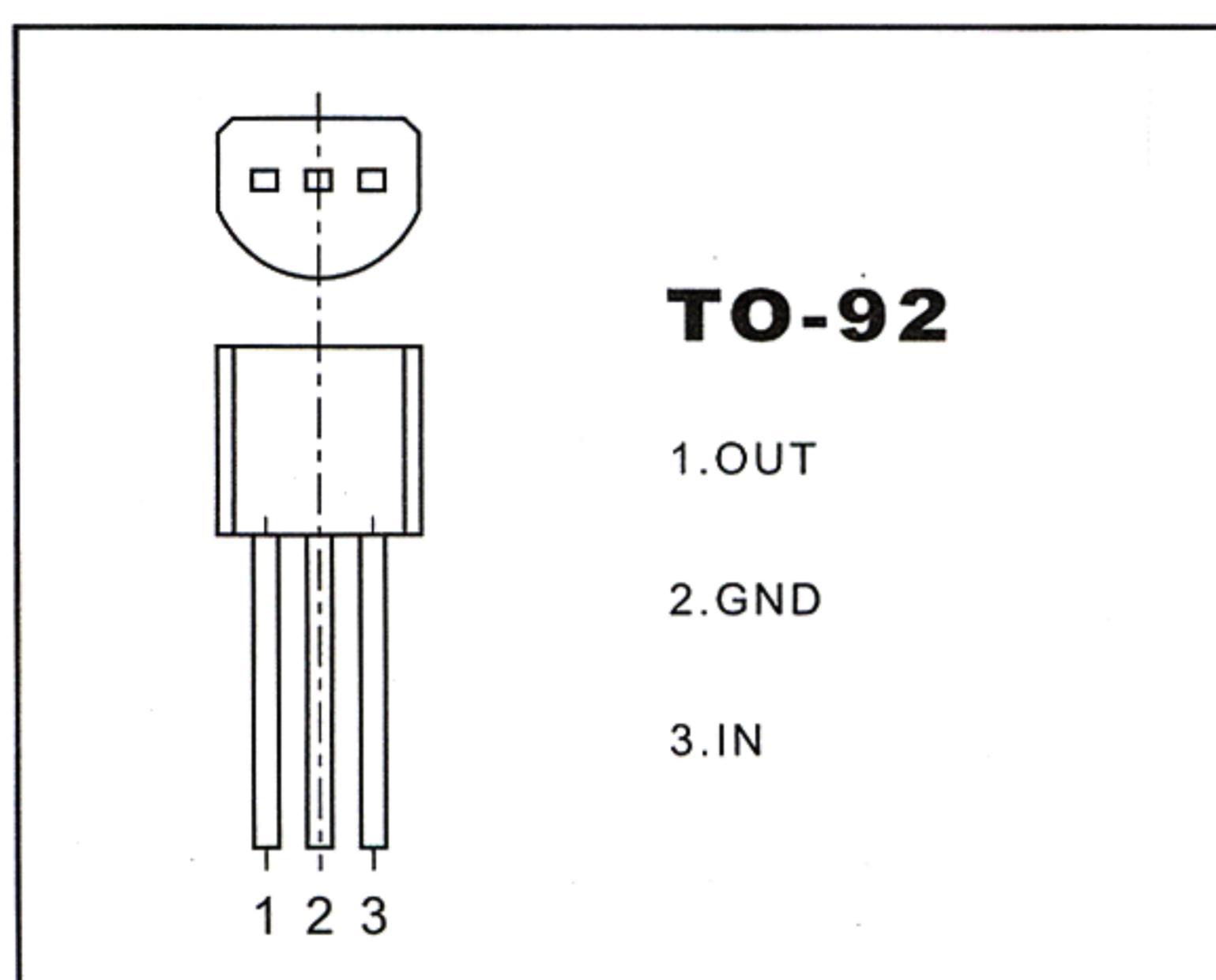


Three-Terminal Low Current Voltage Regulators

CJ78L06 Three-terminal positive voltage regulator



FEATURES

Maximum Output current

I_{OM}: 0.1 A

Output voltage

V_O : 6 V

Operating and storage junction temperature range

T_J, T_{STG}: -55°C to + 150°C

ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherwise specified)

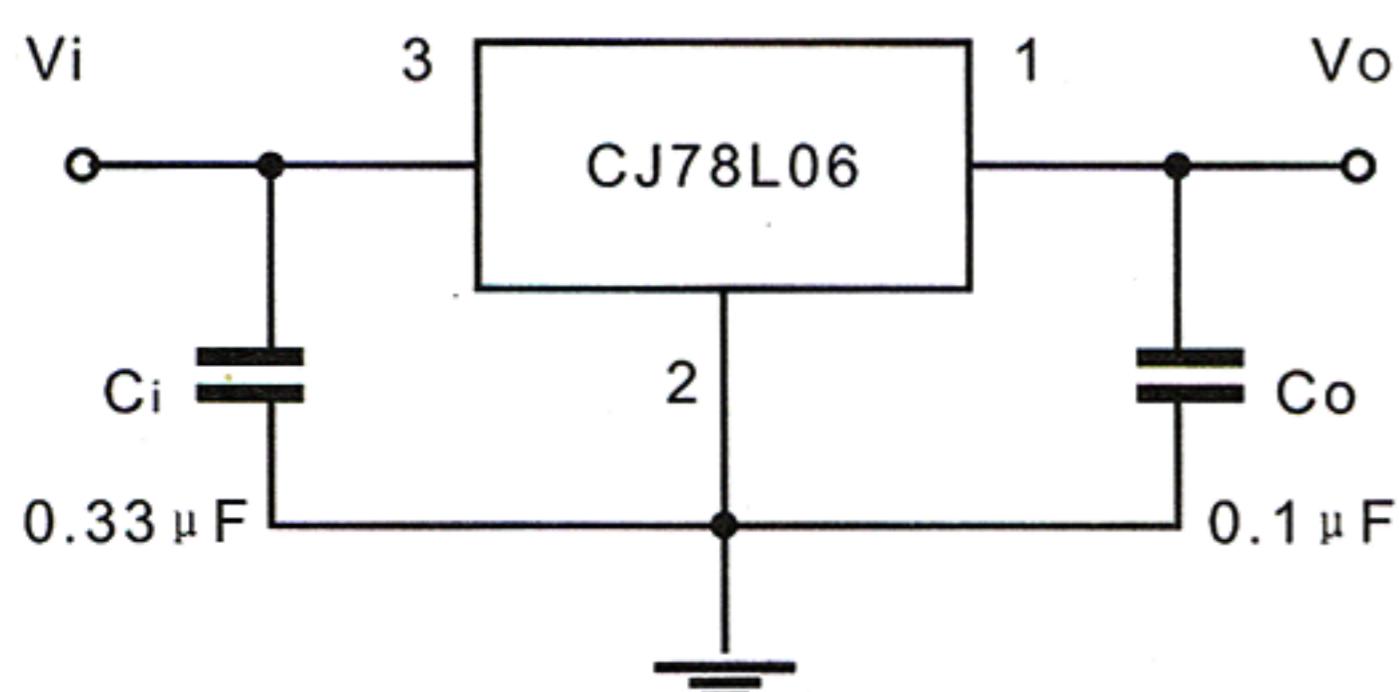
Parameter	Symbol	Value	Units
Input voltage	V _i	30	V
Operating junction temperature range	T _{opr}	-20-+120	°C
Storage temperature range	T _{stg}	-55-+150	°C

ELECTRICAL CHARACTERISTICS

(V_i=12V, I_O=40mA, 0°C< T_j<125°C, C₁=0.33 μF, C_O=0.1 μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V _O	T _j =25°C	5.75	6.0	6.25	V
		8.5V≤V _i ≤20V, I _O =1mA~40mA	5.7		6.3	V
		8.5V≤V _i ≤V _{MAX} , I _O =1mA~70mA	5.7		6.3	V(note)
Load regulation	△V _O	T _j =25°C, I _O =1mA-100mA		12.8	80	mV
		T _j =25°C, I _O =1mA-70mA		5.8	40	mV
Line regulation	△V _O	8.5V≤V _i ≤20V, T _j =25°C		64	175	mV
		9V≤V _i ≤20V, T _j =25°C		54	125	mV
Quiescent current	I _Q			3.9	6.0	mA
Quiescent current change	△I _Q	9V≤V _i ≤20V			1.5	mA
		1mA≤I _O ≤40mA			0.1	mA
Output noise voltage	V _N	10Hz≤f≤100KHz		49		μV
Ripple rejection	RR	8V≤V _i ≤20V, f=120Hz, T _j =25°C	41	46		dB
Dropout voltage	V _d	T _j =25°C			1.7	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.