



TO-251-3L/TO-252-2L Plastic-Encapsulate Regulators

CJ78M06 Three-terminal positive voltage regulator

FEATURES

Maximum output current

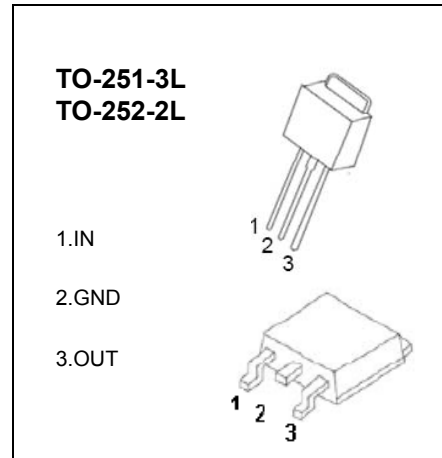
I_{OM} : 0.5 A

Output voltage

V_O : 6V

Continuous total dissipation

P_D : 1.25 W



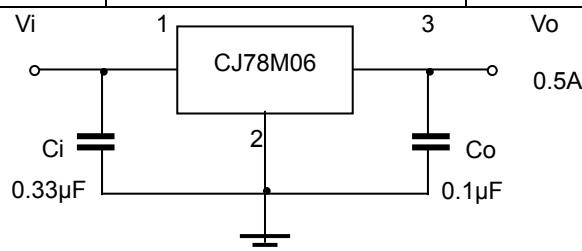
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	25	V
Operating Junction Temperature Range	T_{OPR}	0-+125	°C
Storage Temperature Range	T_{STG}	-65-+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=11V$, $I_O=350mA$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25°C	5.75	6	6.25	V
		8V≤Vi≤21V, Io=5mA-350mA Po≤ 15W	0-125°C	5.7	6	6.3	V
Load Regulation	ΔVo	Io=5mA-0.5A	25°C		18	120	mV
		Io=5mA-200mA	25°C		10	60	mV
Line Regulation	ΔVo	8V≤Vi≤25V, Io=200mA	25°C		5	100	mV
		9V≤Vi≤25V, Io=200mA	25°C		1.5	50	mV
Quiescent Current	Iq		25°C		4.3	6	mA
Quiescent Current Change	ΔIq	9V≤Vi≤25V, Io=200mA	0-125°C			0.8	mA
	ΔIq	5mA≤Io≤350mA	0-125°C			0.5	mA
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		45		uV
Ripple Rejection	RR	9V≤Vi≤19V,f=120Hz,Io=300mA	0-125°C	59	80		dB
Dropout Voltage	Vd	Io=350mA	25°C		2		V
Short Circuit Current	Isc	Vi=11V	25°C		270		mA
Peak Current	Ipk		25°C		0.5		A

TYPICAL APPLICATION



Typical Characteristics

CJ78M06

