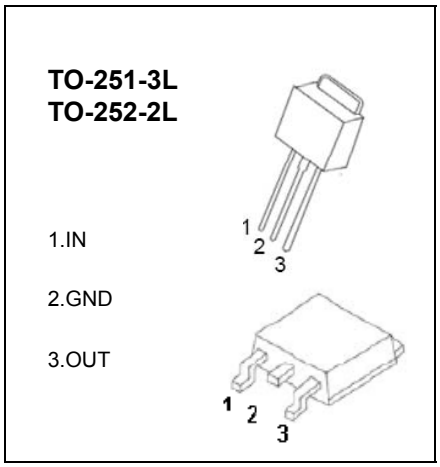
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

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

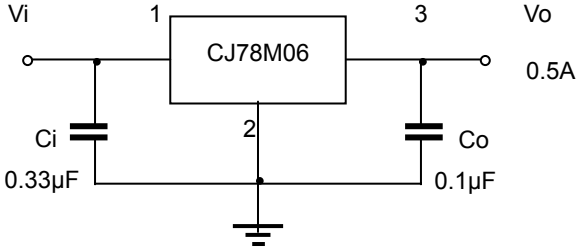
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (Vi=11V, I_O=350mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

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

TYPICAL APPLICATION



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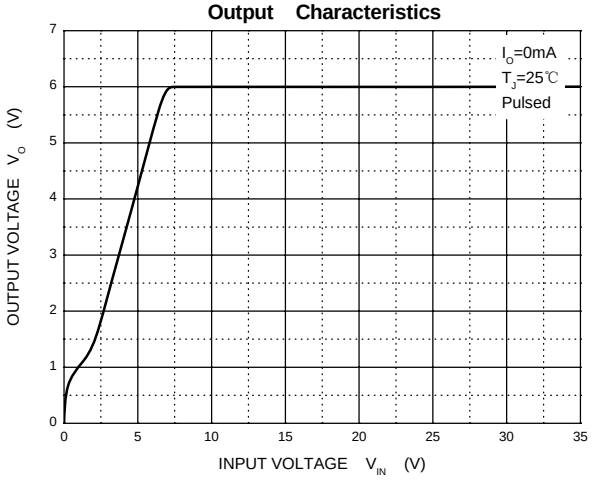
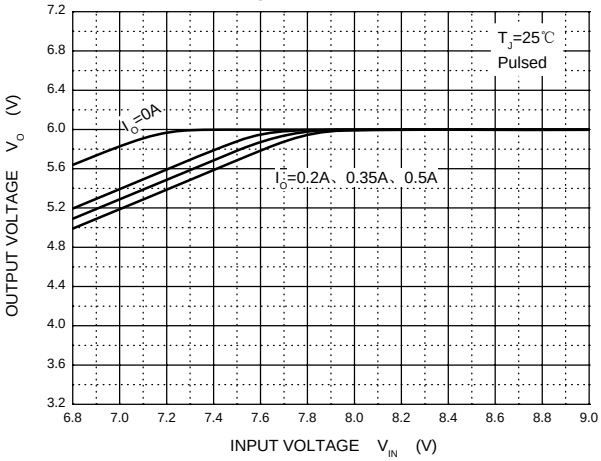
Typical Characterisitics CJ78M06

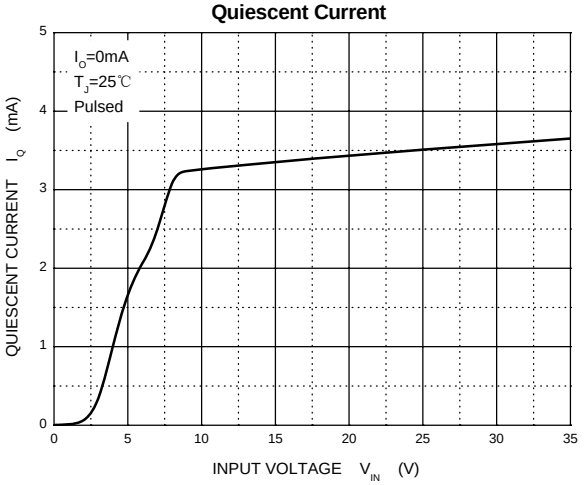
Output Characteristics



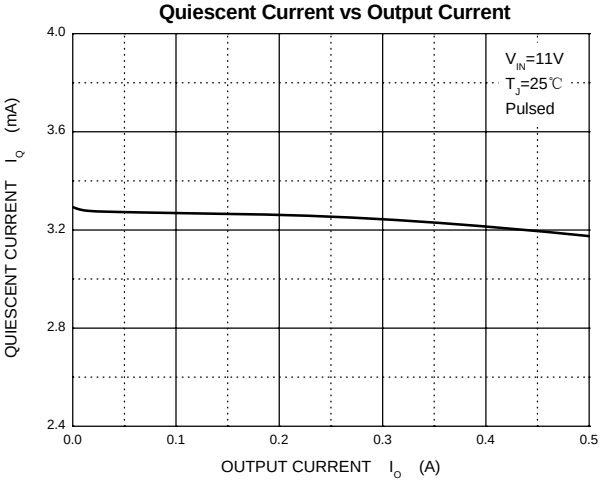
Dropout Characteristics



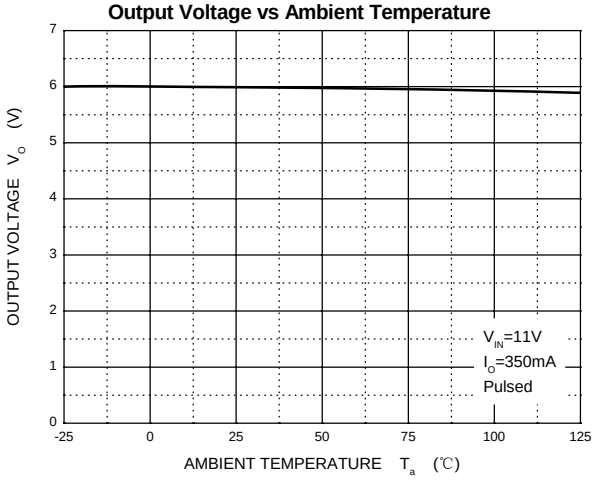
Quiescent Current



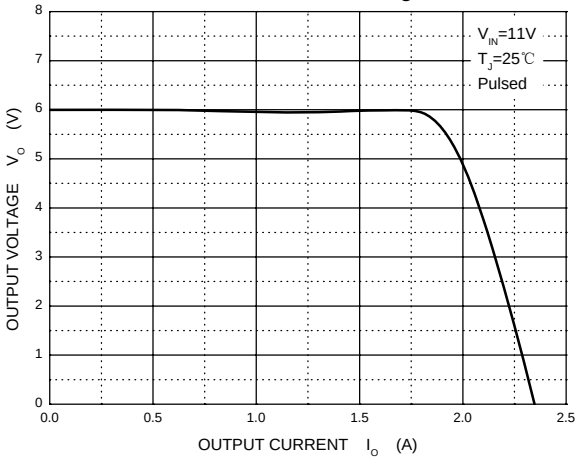
Quiescent Current vs Output Current



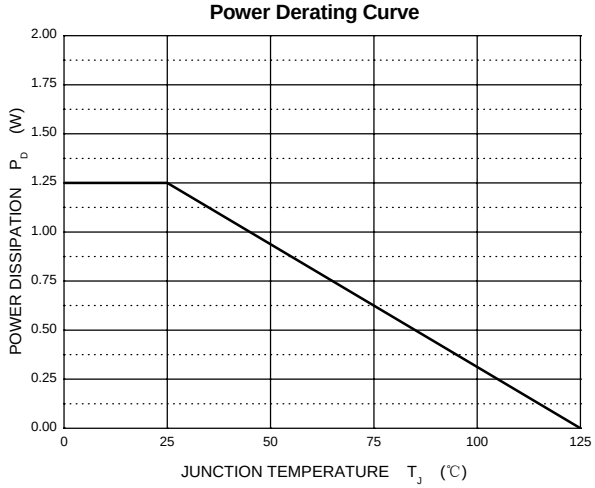
Output Voltage vs Ambient Temperature



Current Cut-off Grid Voltage



Power Derating Curve



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