JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220 Plastic-Encapsulate Transistors

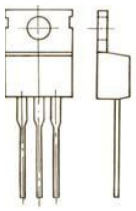
CJ7818 Three-terminal positive voltage regulator

TO—220

1.IN

2.GND

3.OUT



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FEATURES

Maximum Output current

I_{OM}: 1.5 A

Output voltage

V_o: 18V

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

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0—+125	℃
Storage Temperature Range	T_{STG}	-65—+150	℃

ELECTRICAL CHARACTERISTICS(Vi=10V,Io=500mA,0℃<Tj<125℃,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	17.3	18	18.7	V
		21V≤V_i≤33V, Io=5mA-1A Po≤ 15W	17.1	18	18.9	V
Load Regulation	△Vo	Tj=25℃, Io=5mA-1.5A		12	360	mV
		Tj=25℃, Io=250mA-750mA		4	180	mV
Line regulation	△Vo	21V_i≤33V Tj=25℃		15	360	mV
		24V_i≤30V Tj=25℃		5	180	mV
Quiescent Current	Iq	Tj=25℃		4.5	8	mA
Quiescent Current Change	△Iq	21V≤V_i≤33V			1	mA
	△Iq	5mA≤I_o≤1A			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		110		uV
Ripple Rejection	RR	22V≤V_i≤32V, f=120Hz, Tj=25℃	53	69		dB
Dropout Voltage	Vd	Tj=25℃, Io=1A		2		V
Short Circuit Current	Isc	Vi=35V, Ta=25℃		200		mA
Peak Current	Ipk	Tj=25℃		2.1		A

TYPICAL APPLICATION