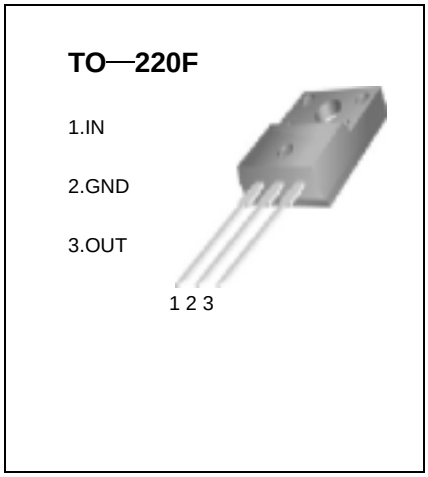
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220F Plastic-Encapsulate Transistors

CJ7806F Three-terminal positive voltage regulator



FEATURES

Maximum Output current

I_{OM}: 1.5 A

Output voltage

V_o: 5V

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}	-55—+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℃	5.75	6	6.25	V
		8V≤V_i≤21V, Io=5mA-1A Po< 15W	5.7	6	6.3	V
Load Regulation	△Vo	Tj=25℃, Io=5mA-1.5A		14	120	mV
		Tj=25℃, Io=250mA-750mA		4	60	mV
Line regulation	△Vo	8V≤V_i≤25V, Tj=25℃		5	120	mV
		9V≤V_i≤13V, Tj=25℃		1.5	60	mV
Quiescent Current	Iq	Tj=25℃		4.3	8	mA
Quiescent Current Change	△Iq	8V≤V_i≤25V			1.3	mA
	△Iq	5mA≤I_O≤1A			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		45		μV
Ripple Rejection	RR	9V≤V_i≤19V,f=120Hz,Tj=0-125℃	59	75		dB
Dropout Voltage	Vd	Tj=25℃, Io=1A		2		V
Short Circuit Current	Isc	Vi=35V, Ta=25℃		550		mA
Peak Current	Ipk	Tj=25℃		2.2		A

TYPICAL APPLICATION