



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

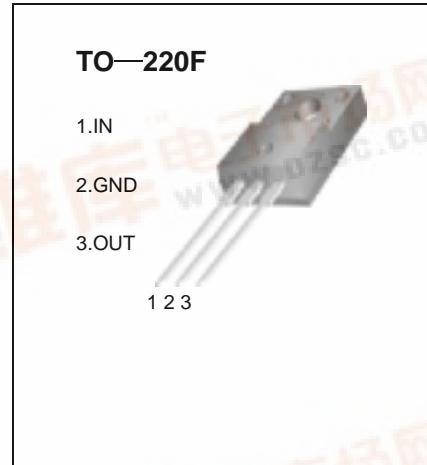
TO-220F Plastic-Encapsulate Transistors

CJ7805F 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	°C
Storage Temperature Range	T_{STG}	-55—+150	°C

ELECTRICAL CHARACTERISTICS ($V_i=10V$, $I_o=500mA$, $0^\circ C < T_j < 125^\circ C$, $C_i=0.33 \mu F$, $C_o=0.1 \mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^\circ C$	4.8	5.0	5.2	V
		$7V \leq V_i \leq 20V$, $I_o=5mA-1A$ $P_o < 15W$	4.75	5.00	5.25	V
Load Regulation	ΔV_o	$T_j=25^\circ C$, $I_o=5mA-1.5A$		9	100	mV
		$T_j=25^\circ C$, $I_o=250mA-750mA$		4	50	mV
Line regulation	ΔV_o	$7V \leq V_i \leq 25V$, $T_j=25^\circ C$		4	100	mV
		$8V \leq V_i \leq 12V$, $T_j=25^\circ C$		1.6	50	mV
Quiescent Current	I_q	$T_j=25^\circ C$		5	8	mA
Quiescent Current Change	ΔI_q	$7V \leq V_i \leq 25V$		0.3	1.3	mA
		$5mA \leq I_o \leq 1A$		0.03	0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		42		uV
Ripple Rejection	RR	$8V \leq V_i \leq 18V$, $f=120Hz$, $T_j=25^\circ C$	62	73		dB
Dropout Voltage	V_d	$T_j=25^\circ C$, $I_o=1A$		2		V
Short Circuit Current	I_{sc}	$V_i=35V$, $T_a=25^\circ C$		230		mA
Peak Current	I_{pk}	$T_j=25^\circ C$		2.2		A

TYPICAL APPLICATION