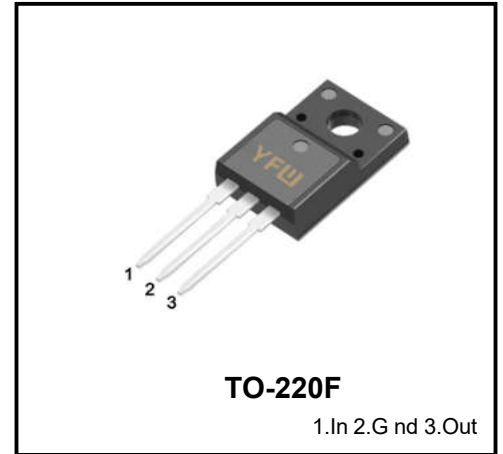


Three-terminal positive voltage regulator

FEATURES

- ◆Maximum output current IOM: 1.5A
- ◆Output voltage VO: 5 V
- ◆Continuous total dissipation PD: 1.25 W



ABSOLUTE MAXIMUM RATINGS

Operating temperature range applies unless otherwise specified

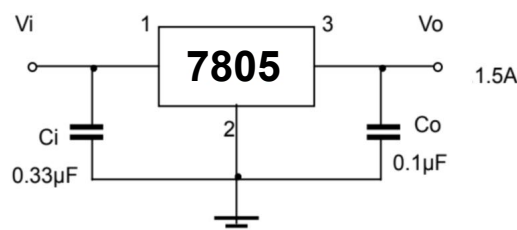
Characteristics	Symbols	Value	Units
Input Voltage	V	35	V
Operating Junction Temperature Range	T _{OPR}	0~+125	°C
Storage Temperature Range	T	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION

(Vi=10V, Io=350mA, Ci=0.33uF, Co=0.1uF, unless otherwise specified)

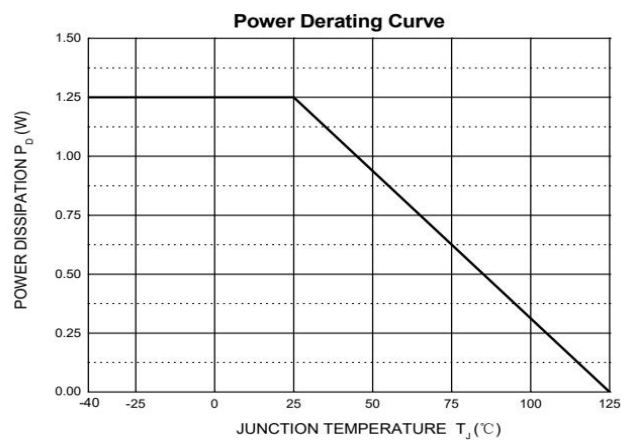
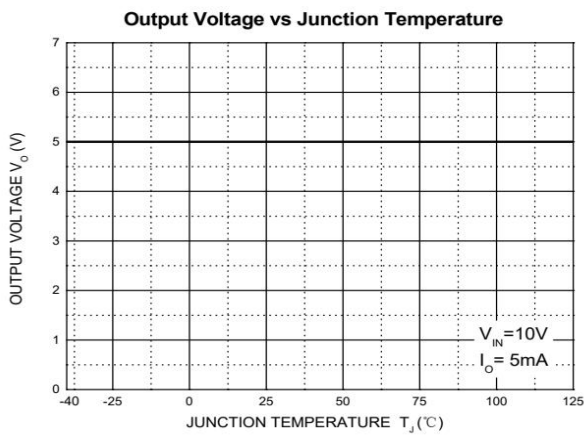
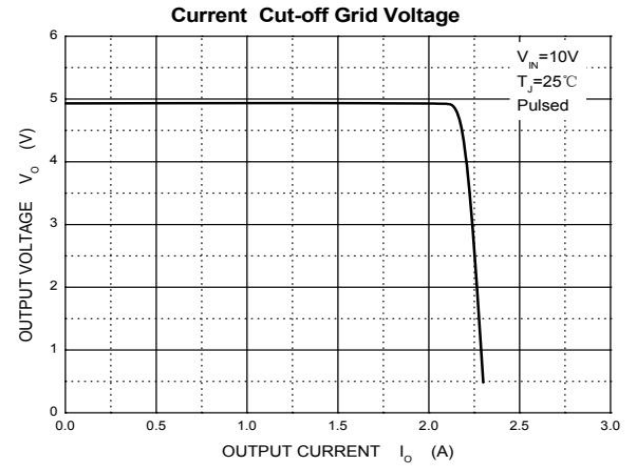
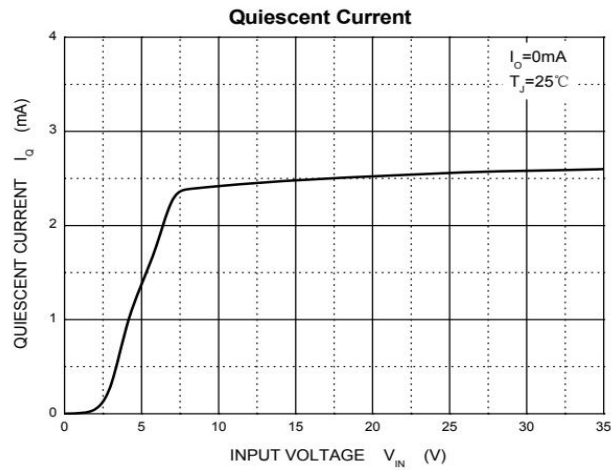
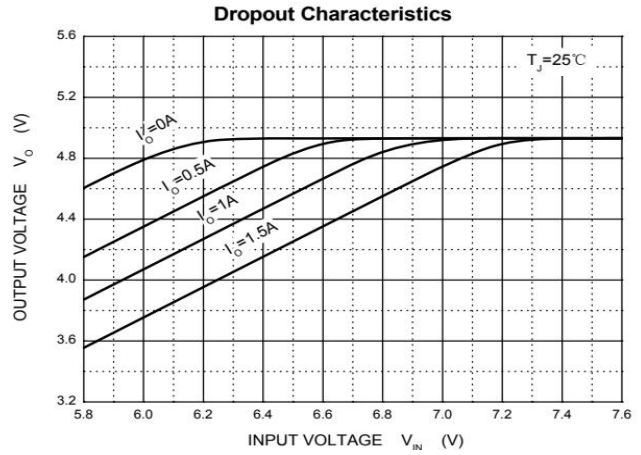
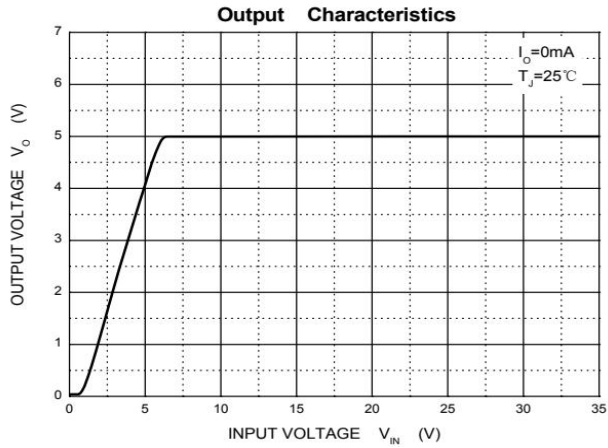
Parameter	Test conditions		Symbol	Min.	Typ.	Max.	Unit
Output Voltage		25°C	Vo	4.8	5	5.2	V
	7V≤Vi≤20V, Io=5mA-1A	0~125°C		4.75	5	5.25	V
Load Regulation	Io=5mA-1.5A	25°C	ΔVo		9	100	mV
	Io=250mA-750mA	25°C			4	50	mV
Line Regulation	7V≤Vi≤25V	25°C	ΔVo		4	100	mV
	8V≤Vi≤12V	25°C			1.6	50	mV
Quiescent Current		25°C	Iq		5	8	mA
Quiescent Current Change	7V≤Vi≤25V	0~125°C	ΔIq		0.3	1.3	mA
	5mA≤Io≤1A	0~125°C			0.02	0.5	mA
Output Noise Voltage	10Hz≤f≤100KHz	25°C	VN		40		uV
Ripple Rejection	8V≤Vi≤18V, f=120Hz, Io=300mA	0~125°C	RR	62	80		dB
Dropout Voltage	Io=1mA	25°C	VD		2		V
Short Circuit Current	Vi=10V	25°C	ISC		230		mA
Peak Current		25°C	Ipk		2.2		A

TYPICAL APPLICATION

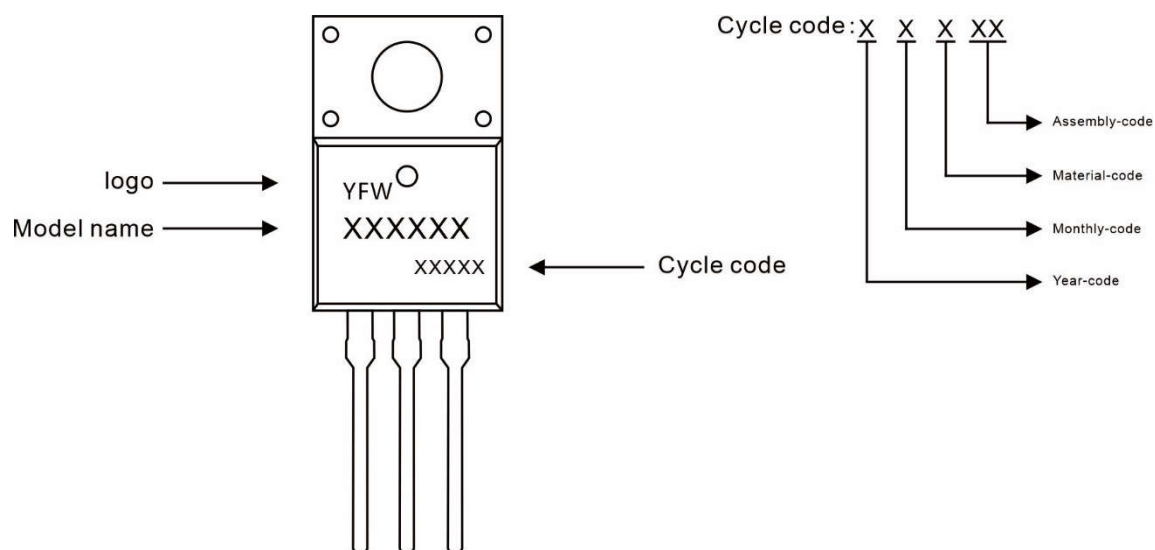


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to

RATINGS AND CHARACTERISTIC CURVES



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
7805AF	TO-220F	0.06oz(1.74g)	50pcs/tube	1000PCS/Box 5000PCS/Carlton

Package Dimensions

TO-220F

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.50	4.90	0.177	0.193
A1	2.34	2.74	0.092	0.108
A2	2.66	2.86	0.105	0.113
b	0.75	0.85	0.030	0.033
b1	1.24	1.44	0.049	0.057
c	0.40	0.60	0.016	0.024
D	10.00	10.32	0.394	0.406
E	15.75	16.05	0.620	0.632
e	2.44	2.64	0.096	0.104
e1	4.88	5.28	0.192	0.208
F	3.10	3.5	0.122	0.138
L	13.50	13.90	0.531	0.547
L1	2.90	3.30	0.114	0.130
Φ	3.10	3.30	0.122	0.130

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