

# 78M05

## To-252/251 Plastic-Encapsulate Transistors

### 78M05 Three-terminal positive voltage regulator

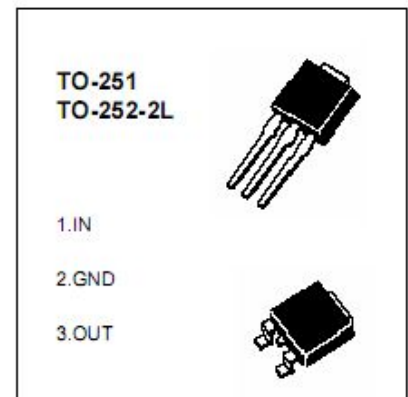
#### FEATURES:

Maximum Output current ICM: 1A

Output voltage VO: 5V

Continuous total dissipation

PD: 1.25 W(Ta=25°C)



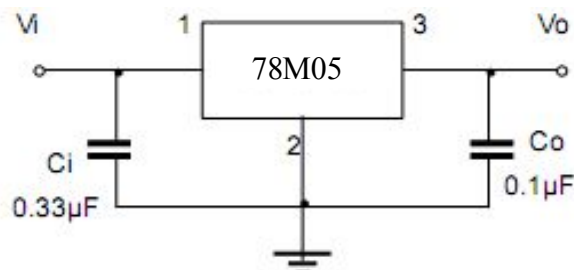
### ABSOLUTE MAXIMUM RATINGS(Operating temperature unless otherwise specified)

Symbol (符号)	Parameter (参数名称)	Value (额定值)	Units (单位)
V <sub>i</sub>	Input Voltage	35	V
T <sub>OPR</sub>	Operating junction Temperature Range	0~+125	°C
T <sub>stG</sub>	Storage Temperature Range	-55~+150	°C

### ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C unless otherwise specified)

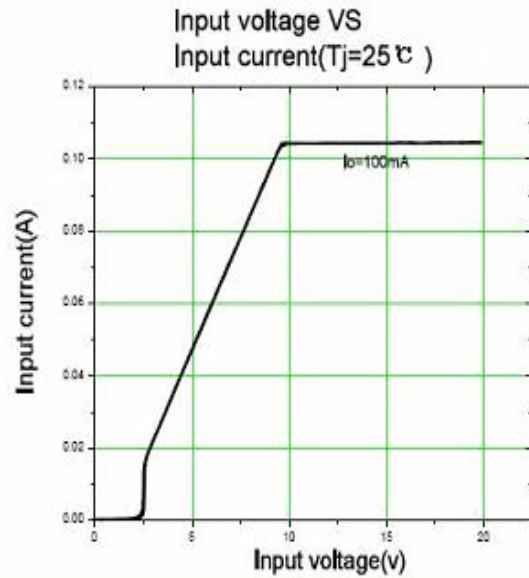
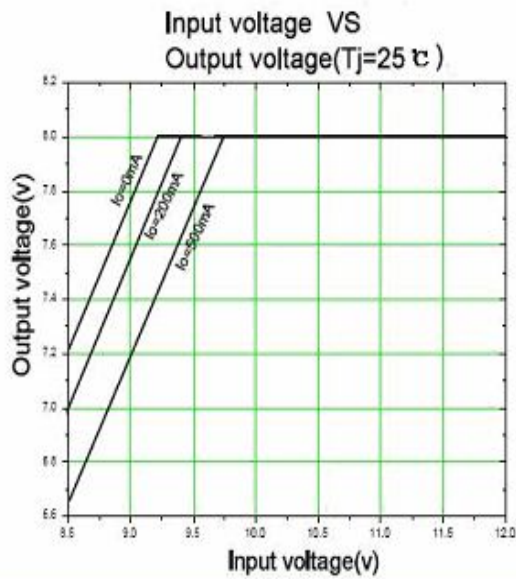
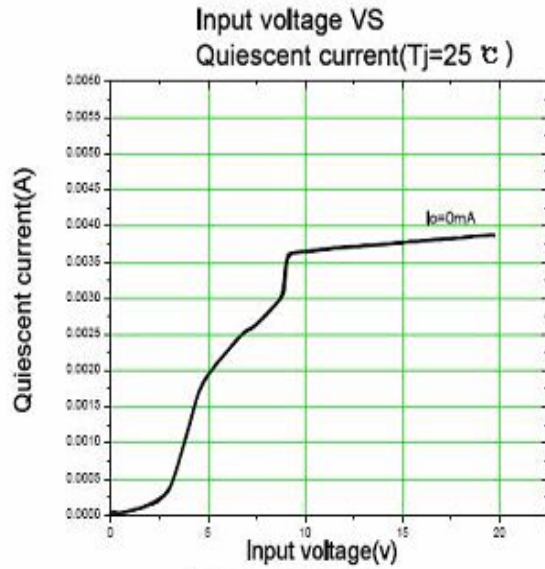
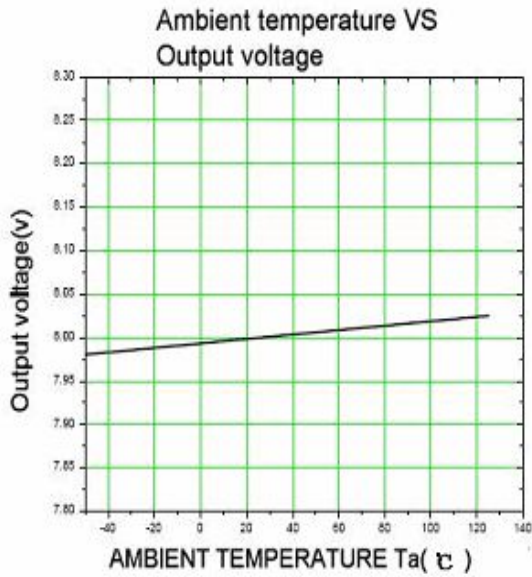
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V <sub>o</sub>	25°C	4.8	5.0	5.2	V
		7V ≤ V <sub>i</sub> ≤ 20V, I <sub>o</sub> = 5mA ~ 350mA P <sub>o</sub> ≤ 15W	0-125°C	4.75	5.0	5.25
Load Regulation	ΔV <sub>o</sub>	I <sub>o</sub> = 1mA ~ 0.5A	25°C	15	100	mV
		I <sub>o</sub> = 5mA ~ 200mA	25°C	5	100	mV
Line regulation	ΔV <sub>o</sub>	7V ≤ V <sub>i</sub> ≤ 25V I <sub>o</sub> = 200mA		3	100	mV
		8V ≤ V <sub>i</sub> ≤ 25V I <sub>o</sub> = 200mA	25°C	1	50	mV
Quiescent Current	I <sub>q</sub>	25°C		4.2	6	mA
Quiescent Current Change	ΔI <sub>q</sub>	8V ≤ V <sub>i</sub> ≤ 25V I <sub>o</sub> = 200mA	0-125°C		0.8	mA
	ΔI <sub>q</sub>	5mA ≤ I <sub>o</sub> ≤ 350mA	0-125°C		0.5	mA
Output Noise Voltage	V <sub>N</sub>	10Hz ≤ f ≤ 100KHz	25°C	40	200	uV
Ripple Rejection	RR	8V ≤ V <sub>i</sub> ≤ 18V, f = 120Hz I <sub>o</sub> = 300mA	0-125°C	62	80	dB
Dropout Voltage	V <sub>d</sub>	I <sub>o</sub> = 350mA	25°C	2	2.5	V

### TYPICAL APPLICATION



### Typical Characteristics

78M05



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