

## To-252 Plastic-Encapsulate Transistors

### 78M05 Three-terminal positive voltage regulator

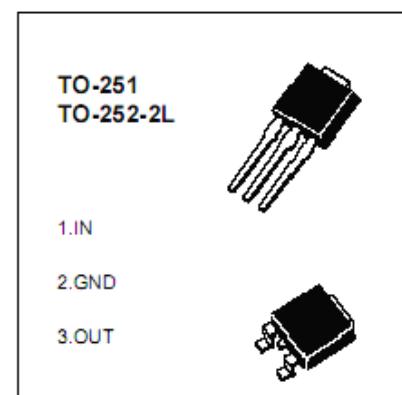
#### FEATURES:

Maximum Output current ICM: 0.5A

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)
Vi	Input Voltage	35	V
TOPR	Operating junction Temperature Range	0~+125	°C
TstG	Storage Temperature Range	-55~+150	°C

#### ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	Vo		25°C	4.8	5.0	5.2	V
		7V≤Vi≤20V, Io=5mA~350mA Po≤15W	0-125°C	4.75	5.0	5.25	V
Load Regulation	△Vo	Io=1mA~0.5A	25°C		15	100	mV
		Io=5mA~200mA	25°C		5	100	mV
Line regulation	△Vo	7V≤Vi≤25V Io=200mA			3	100	mV
		8V≤Vi≤25V Io=200mA	25°C		1	50	mV
Quiescent Current	Iq		25°C		4.2	6	mA
Quiescent Current Change	△Iq	8V≤Vi≤25V Io=200mA	0-125°C			0.8	mA
	△Iq	5mA≤Io≤350mA	0-125°C			0.5	mA
Output Noise Voltage	Vn	10Hz≤f≤100kHz	25°C		40	200	uV
Ripple Rejection	RR	8V≤Vi≤18V, f=120Hz Io=300mA	0-125°C	62	80		dB
Dropout Voltage	Vd	Io=350mA	25°C		2	2.5	V

#### TYPICAL APPLICATION

