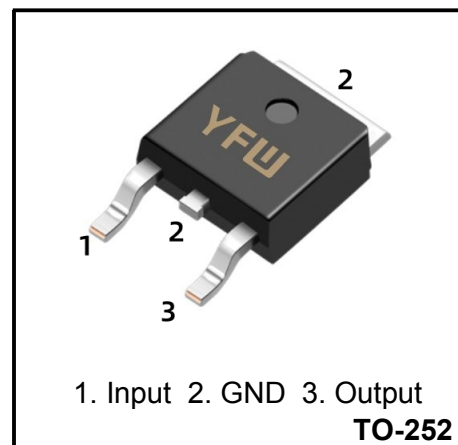


Three-terminal positive voltage regulator

FEATURES

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



1. Input 2. GND 3. Output

TO-252

ABSOLUTE MAXIMUM RATINGS

Operating temperature range applies unless otherwise specified

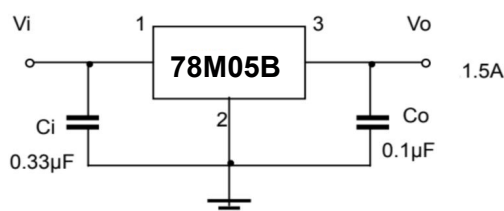
Characteristics	Symbols	Value	Units
Input Voltage	V	35	V
Operating Junction Temperature Range	T_{OPR}	-40~+125	°C
Storage Temperature Range	T_{stg}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION

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

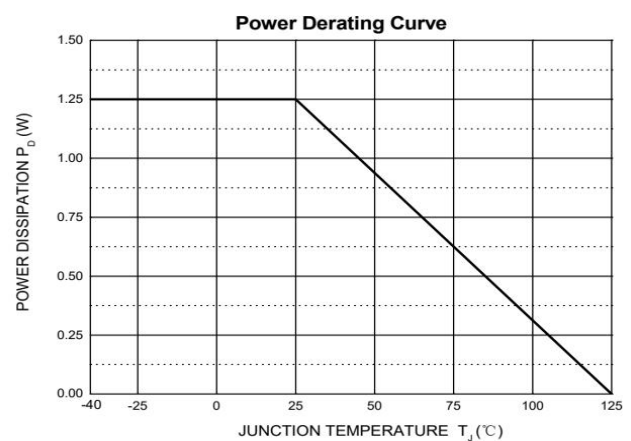
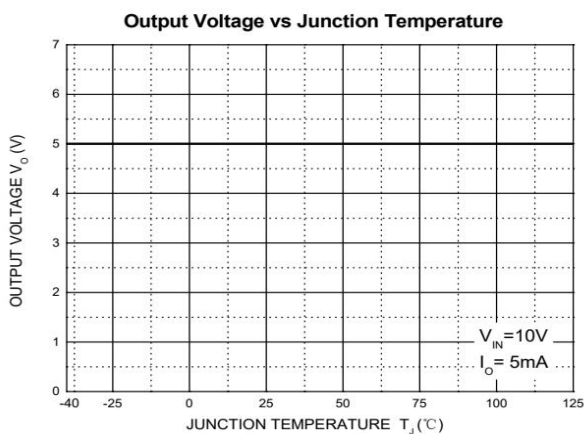
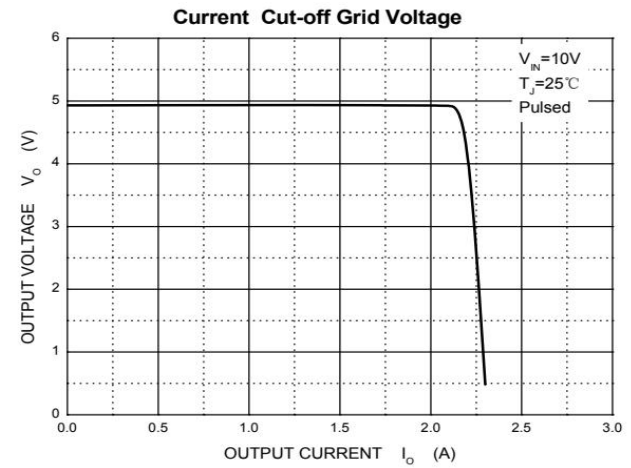
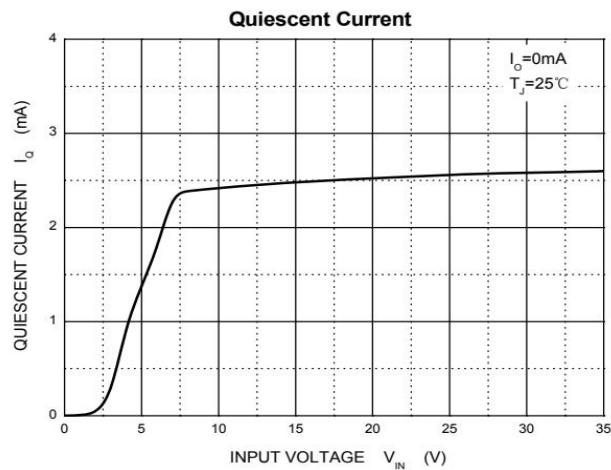
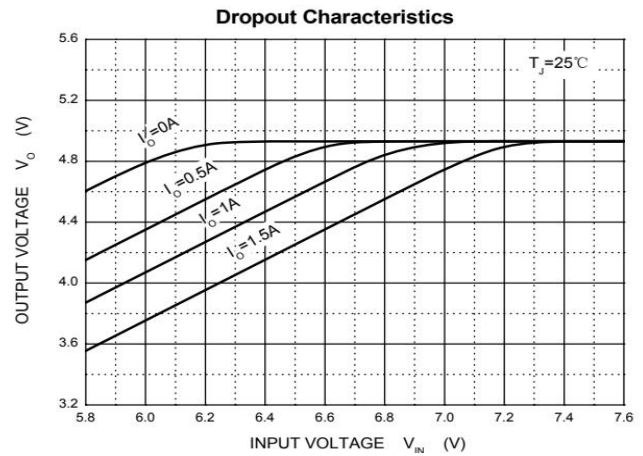
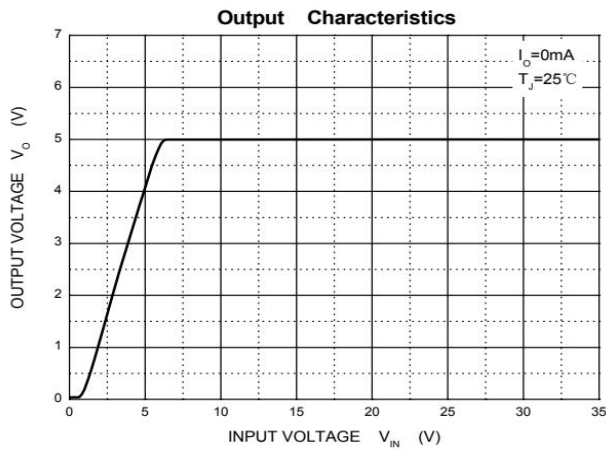
Parameter	Test conditions		Symbol	Min.	Typ.	Max.	Unit
Output Voltage		25°C	Vo	4.8	5	5.2	V
	7V≤Vi≤20V, Io=5mA-1A	0~125°C		4.75	5	5.25	V
Load Regulation	Io=5mA-1.5A	25°C	ΔVo		9	100	mV
	Io=250mA-750mA	25°C			4	50	mV
Line Regulation	7V≤Vi≤25V	25°C	ΔVo		4	100	mV
	8V≤Vi≤12V	25°C			1.6	50	mV
Quiescent Current		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

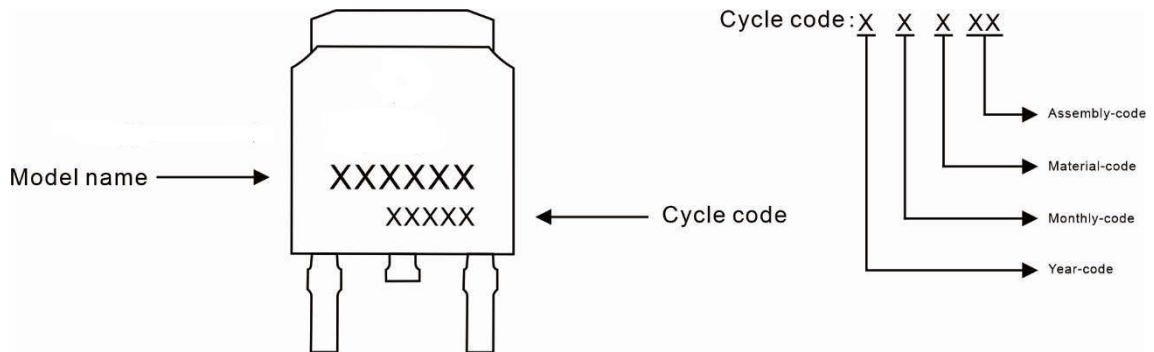


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

RATINGS AND CHARACTERISTIC CURVES



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
78M05B	TO-252	0.011oz(0.32g)	2500pcs/reel	5000pcs/box 25000pcs/Carton

Package Dimensions

TO-252

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.50	0.087	0.098
A1	0.00	0.12	0.000	0.005
A2	2.20	2.40	0.087	0.094
B	1.20	1.60	0.047	0.063
b	0.50	0.70	0.020	0.028
b1	0.70	0.90	0.028	0.035
c	0.40	0.60	0.016	0.024
c1	0.40	0.60	0.016	0.024
D	6.35	6.65	0.250	0.262
D1	5.20	5.40	0.205	0.213
E	5.40	5.70	0.213	0.224
e	2.20	2.40	0.087	0.094
e1	4.40	4.80	0.173	0.189
L	10.00	11.00	0.393	0.433
L1	2.70	3.10	0.106	0.122
L2	1.40	1.80	0.055	0.071
L3	0.90	1.50	0.035	0.059

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