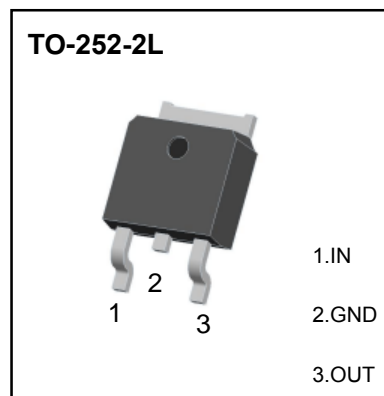


## TO-252-2L Plastic-Encapsulate Voltage Regulators

Three-terminal positive voltage regulator

### Feature

- Maximum output current  
 $I_{OM}$ : 0.5 A
- Output voltage  
 $V_O$ : 5V
- Continuous total dissipation  
 $P_D$ : 1.25 W ( $T_a = 25^\circ\text{C}$ )



### Limiting Values (Absolute Maximum Rating)

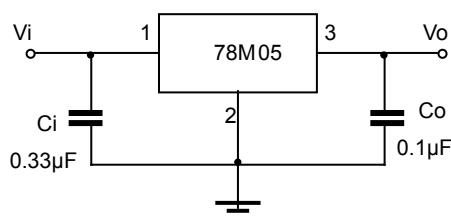
Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	80	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_{OPR}$	-25~+125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65~+150	$^\circ\text{C}$

### Electrical Characteristics ( $T=25^\circ\text{C}$ Unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25°C	4.8	5	5.2	V
		7V≤Vi≤20V, Io=5mA-350mA	-25~125°C	4.75	5	5.25	V
Load Regulation	ΔVo	Io=5mA-0.5A	25°C		15	100	mV
		Io=5mA-200mA	25°C		5	50	mV
Line Regulation	ΔVo	7V≤Vi≤25V, Io=200mA	25°C		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	ΔIq	8V≤Vi≤25V, Io=200mA	-25~125°C			0.8	mA
	ΔIq	5mA≤Io≤350mA	-25~125°C			0.5	mA
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		40	200	μV/Vo
Ripple Rejection	RR	8V≤Vi≤18V,f=120Hz,Io=300mA	-25~125°C	62	80		dB
Dropout Voltage	Vd	Io=350mA	25°C		2	2.5	V
Short Circuit Current	Isc	Vi=10V	25°C		300		mA
Peak Current	Ipk		25°C		0.5		A

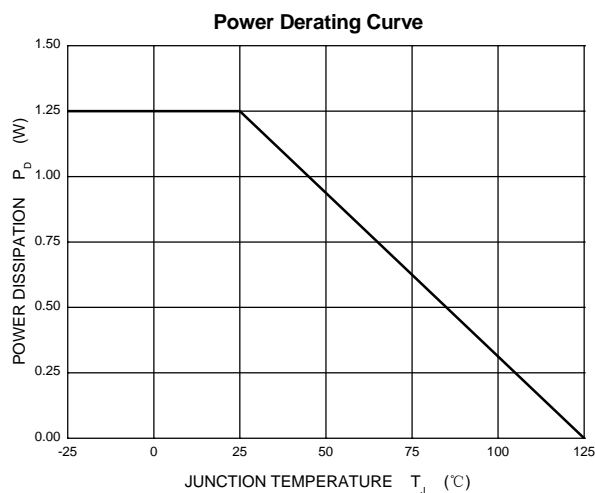
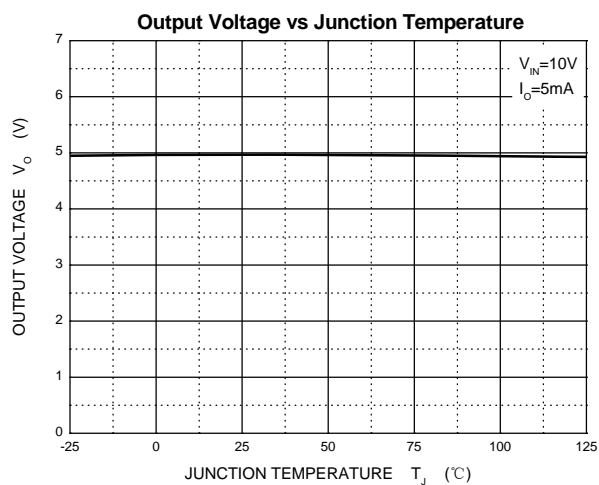
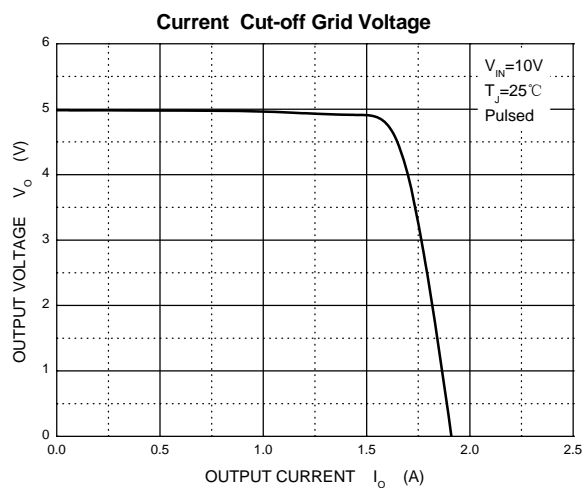
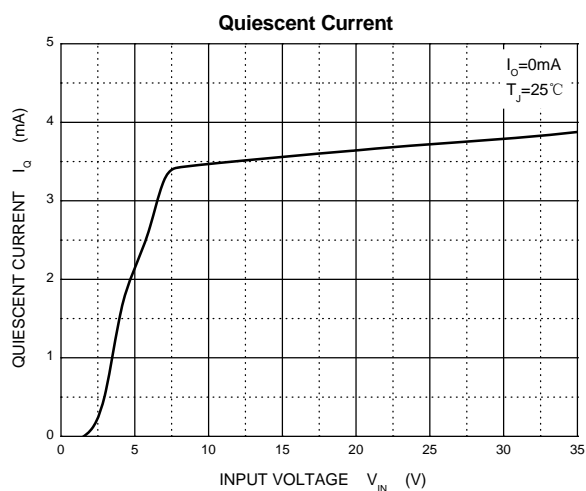
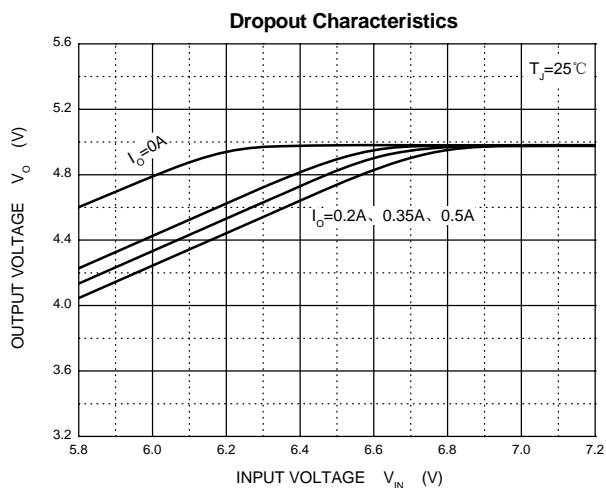
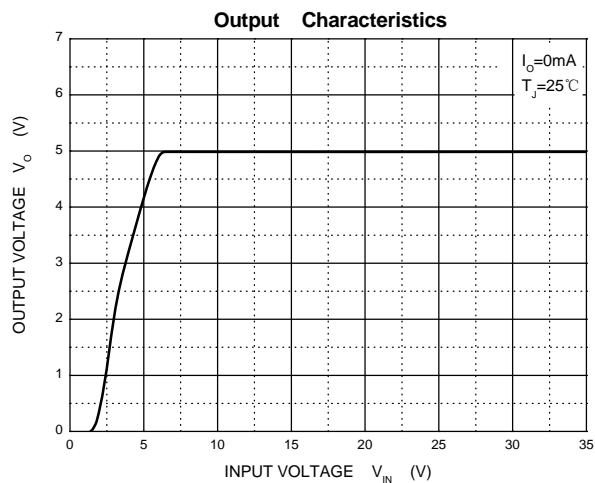
\* Pulse test.

### TYPICAL APPLICATION

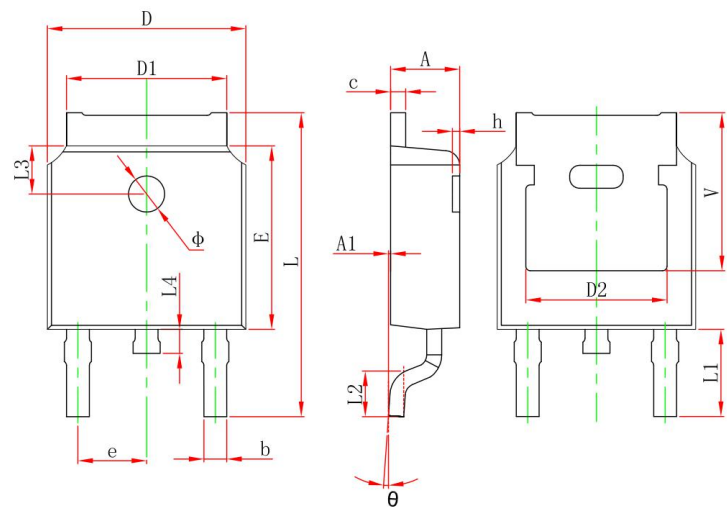


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

## Typical Characteristics



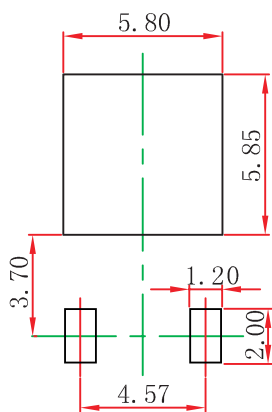
TO-252-2L Package Outline Dimensions



SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A	2.20	2.40	L1	2.90 REF	
A1	0.000	0.125	L2	1.40	1.70
b	0.66	0.86	L3	1.60 REF	
c	0.46	0.58	L4	0.60	1.00
D	6.50	6.70	Φ	1.10	1.30
D1	5.10	5.46	θ	0°	8°
D2	4.830 REF		h	0.00	0.30
E	6.00	6.20	V	5.35 REF	
e	2.186	2.386			
L	9.80	10.40			
Coplanar degrees	0	0.09			

Unit : mm

TO-252-2L Suggested Pad Layout



- Note:**
- 1.Controlling dimension:in millimeters.
  - 2.General tolerance:± 0.05mm.
  - 3.The pad layout is for reference purposes only.

NOTICE

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