FEATURES
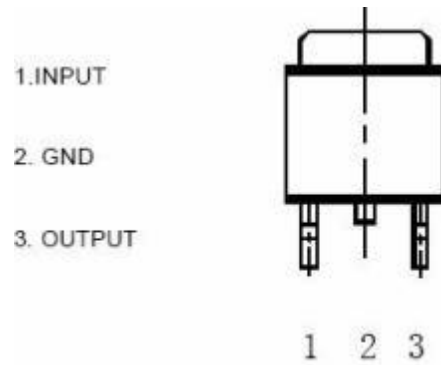
- Output Crrent in Excess of 0.5A
- Output Voltage is 5V
- Internal thermal Overload protection
- Internal Short Circuit Current Limiting

PIN CONNECTION

1.INPUT

2. GND

3. OUTPUT

1 2 3

ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

Characteristics	Symbol	Value	Unit
Input Voltage	Vi	7 ～ 36	V
Storage Temperature Range	Tstg	-85 ～ 150	℃

ELECTRICAL CHARACTERISTICS

(unless otherwise noted, Vi=10V,Io=350 mA, 0 ℃< Tj< 125 ℃,C1= 0.33 μF,Co= 0.1 μF)

Characteristics	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Voltage	Vo	Tj=25 ℃	4.8	5.0	5.2	V
		7V≤Vi≤ 20 V,Io=5mA ～ 350 mA	4.75	5	5.25	
Load Regulation	Δ Vo	Tj=25 ℃,Io=5mA ～ 500mA		25	100	mV
		Tj=25 ℃,Io=5mA ～ 200mA		10	50	
Line Regulation	Δ Vo	7V≤Vi≤ 25 V,Io=200mA, Tj=25 ℃		4	100	mV
		8V≤Vi≤ 25 V,Io=200mA, Tj=25 ℃		2	50	
Quiescent Current	Iq	Tj=25 ℃		4	6	m A
Quiescent Current Charge	ΔIq	8V≤Vi≤ 25 V,Io=200mA			0.8	mA
		5mA≤Io≤ 350 mA			0.5	

Continues:

| Characteristics	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Noise Voltage	V_N	10Hz≤f≤ 100 kHz, Tj=25 ℃		40	200	μV
Dropout Voltage	Vd	Tj=25 ℃		1.7		V
Ripple Rejection	RR	8V≤Vi≤ 18 V,f=120Hz, Io=300mA, Tj=25 ℃	56	80		dB
Short Circuit Current Limit	Isc	Tj=25 ℃		950		m A

APPLICATION CIRCUIT
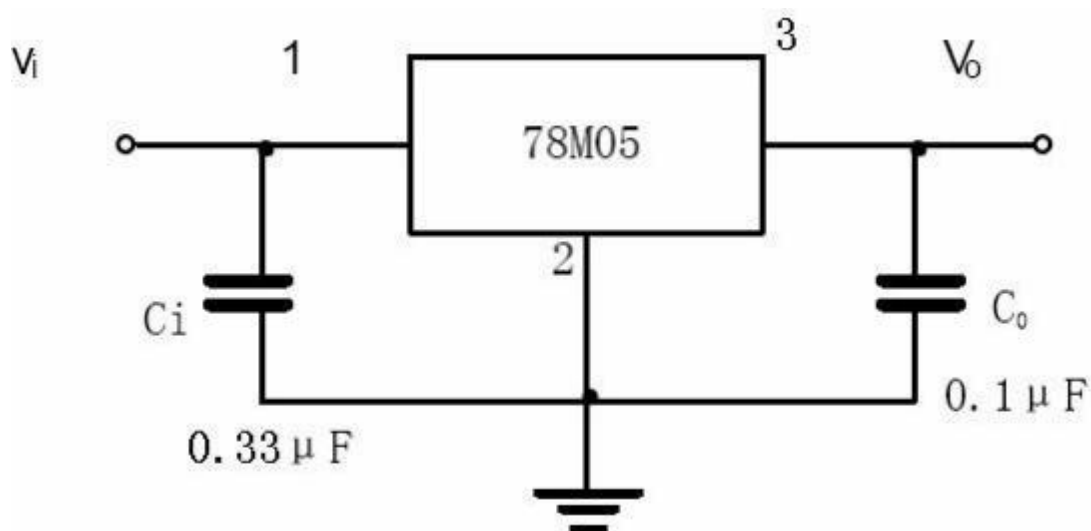
*Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

OUTLINE DRAWING

TO-252-2L
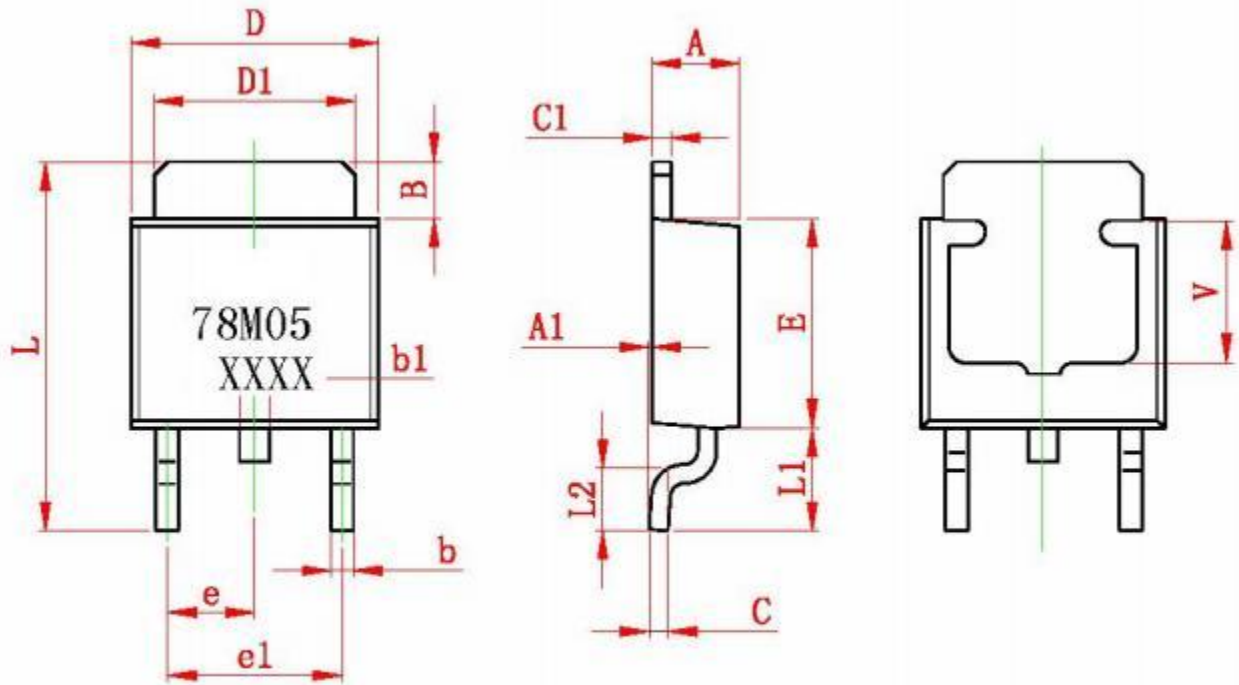
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
B	1.350	1.650	0.053	0.065
b	0.500	0.700	0.020	0.028
b1	0.700	0.900	0.028	0.035
c	0.430	0.580	0.017	0.023
c1	0.430	0.580	0.017	0.023
D	6.350	6.650	0.250	0.262
D1	5.200	5.400	0.205	0.213
E	5.400	5.700	0.213	0.224
e	2.300 TYP		0.091 TYP	
e1	4.500	4.700	0.177	0.185
L	9.500	9.900	0.374	0.390
L1	2.550	2.900	0.100	0.114
L2	1.400	1.780	0.055	0.070
V	3.80 REF		0.150 REF	