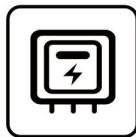


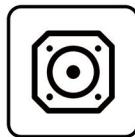


自主封測 品質把控 售後保障

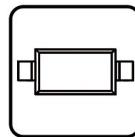
WEB | [WWW.TDSEMIC.COM](http://WWW.TDSEMIC.COM)



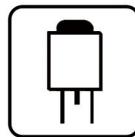
電源管理



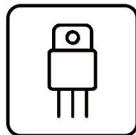
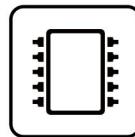
顯示驅動



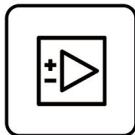
二三極管 LDO穩壓器



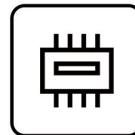
觸摸芯片



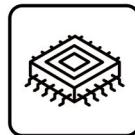
MOS管



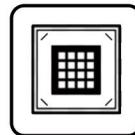
運算放大器



存儲芯片



MCU



串口通信

78M05-TD (1.5A)

產品規格說明書

## FEATURES

- Output Current in Excess of 1.5A
- Output Voltage is 5V
- Internal thermal Overload protection
- Internal Short Circuit Current Limiting

## PIN CONNECTION

1.INPUT  
2.GND  
3.OUTPUT



## ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

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

## ELECTRICAL CHARACTERISTICS

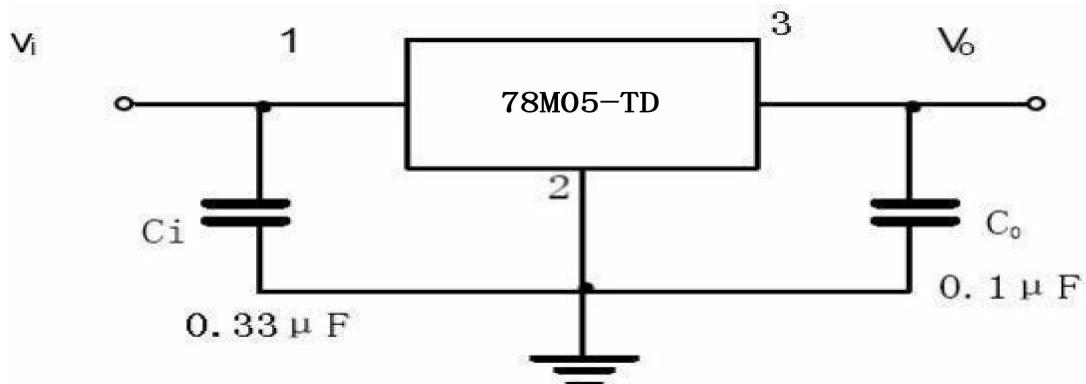
(unless otherwise noted, Vi=10V,Io=350 mA, 0 °C < Tj < 125 °C,C1=0.33 μF,Co= 0.1 μ F)

Characteristics	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Voltage	Vo	Tj=25 °C	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 °C ,Io=5mA ~ 1000mA		25	100	mV
		Tj=25 °C ,Io=5mA ~ 200mA		10	50	
Line Regulation	Δ Vo	7V≤Vi≤ 25 V,Io=300mA, Tj=25 °C		4	100	mV
		8V≤Vi≤ 25 V,Io=300mA, Tj=25 °C		2	50	
Quiescent Current	Iq	Tj=25 °C		4	6	m A
Quiescent Current Charge	ΔIq	8V≤Vi≤ 25 V,Io=300mA			0.8	mA
		5mA≤Io≤ 350 mA			0.5	

Continues:

Characteristics	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Noise Voltage	$V_N$	$10Hz \leq f \leq 100 kHz, T_j=25^\circ C$		40	200	$\mu V$
Dropout Voltage	$V_d$	$T_j=25^\circ C$		1.7		V
Ripple Rejection	$RR$	$8V \leq V_i \leq 18V, f=120Hz, I_o=300mA, T_j=25^\circ C$	56	80		dB
Short Circuit Current Limit	$I_{sc}$	$T_j=25^\circ C$		950		m A

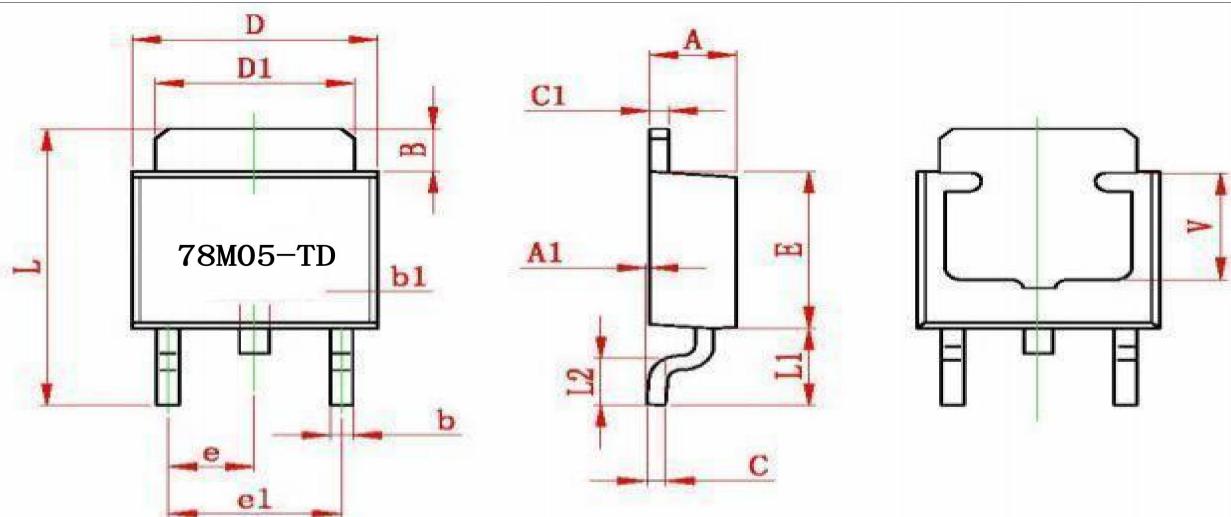
## APPLICATION CIRCUIT



\*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	