# 78S05M

Three-terminal positive Voltage Regulator

FEATURES

- Output Crrent in Excess of 0.15A
- Output Voltage is 5V
- Internal thermal Overload protection
- Internal Short Circuit Current Limiting

PIN CONNECTION

SOT-89
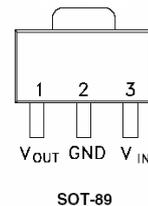
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristics	Symbol	Value	Unit
Input Voltage	Vi	25	V
Operating Temperature	Topr	-40～85	℃
Storage Temperature Range	Tstg	-55～150	℃

ELECTRICAL CHARACTERISTICS

(unless otherwise noted, Vi=10V,Io=40m A, -30℃<Tj<85℃,C1=0.33μF,Co=0.1μF)

Characteristics	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Voltage	Vo	Tj=25℃	4.9		5.0	V
		7V≤Vi≤20V,Io=5mA～150mA	5.0		5.1	
Load Regulation	ΔVo	Tj=25℃,Io=5mA～150mA		25	100	mV
		Tj=25℃,Io=5mA～100mA		10	50	
Line Regulation	ΔVo	7V≤Vi≤25V,Io=100mA,Tj=25℃		4	100	mV
		8V≤Vi≤25V,Io=100mA,Tj=25℃		2	50	
Quiescent Current	Iq	Tj=25℃		4	6	mA
Quiescent Current Charge	ΔIq	8V≤Vi≤25V,Io=100mA			0.8	mA
		5mA≤Io≤150mA			0.5	

Continues:

| Characteristics	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Noise Voltage	V_N	10Hz≤f≤100kHz, Tj=25℃		40	200	μV
Dropout Voltage	Vd	Tj=25℃		2		V
Ripple Rejection	RR	8V≤Vi≤18V,f=120Hz, Io=100mA, Tj=25℃	56	80		dB
Short Circuit Current Limit	Isc	Tj=25℃		0.5		A

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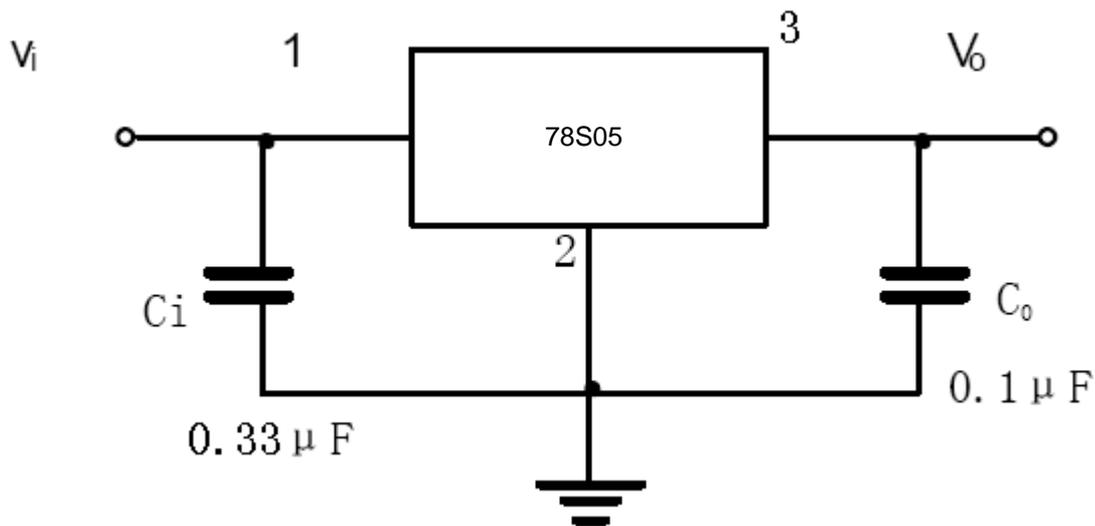
*Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

SOT-89	单位：mm
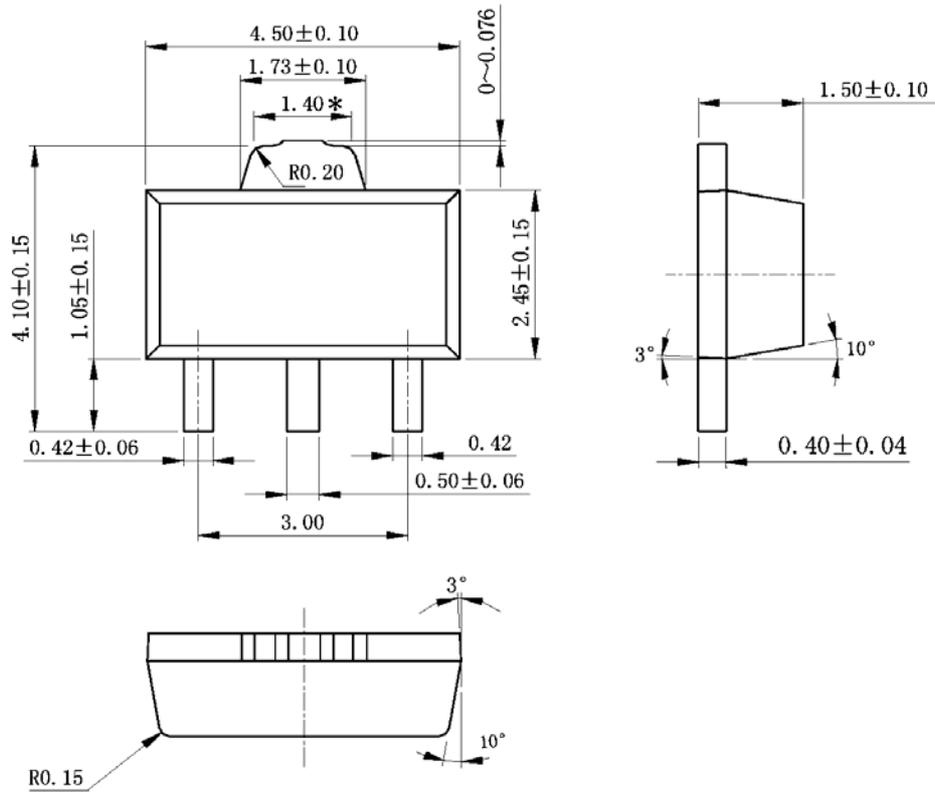
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AP4306BUKTR-G1   SC431BVSNT1G   MAX6023EBT30+T   NCV431ASNT1G   LM4040CEM3-5.0/V+T   LT1460KCS3-3#TRM
LT1460KCS3-3.3#TRM   LT1019AIS8-2.5   LT6660KCDC-10#TRMPBF   LTC6652BHLS8-5#PBF   LTC6652AHLS8-4.096#PBF
LTC6655BHLS8-4.096#PBF   LT6660HCDC-5#TRMPBF   LM336Z-2.5#PBF   LT1021BMH-10   SC431ILPRAG   TLVH431MIL3T
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