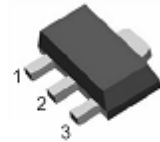


ST 78L05U (SOT-89)

3-Terminal positive voltage regulator

1. OUT
2. GND
3. IN



SOT-89 Plastic Package

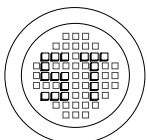
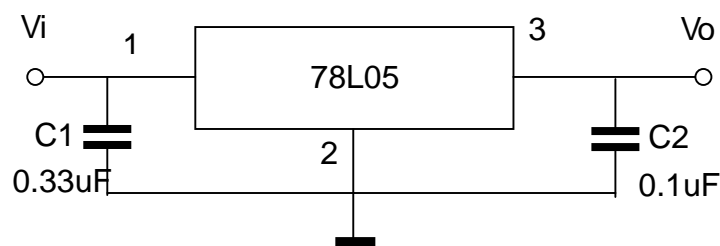
Absolute Maximum Ratings (T_a = 25°)

	Symbol	Rating	Unit
Input Voltage	V _I	30	V
Operating Temperature	T _{opr}	-20~120	°C
Storage Temperature Range	T _s	-55~150	°C

Electrical Characteristics (T_a = 25°)

(Unless otherwise specified, 0?? T_J? 125°, V_I=10V, I_O=40mA, C_I=0.33μF, C_O=0.1μF)

	Symbol	Test Condition	Min	Typ	Max	Unit
Output Voltage	V _O	T _J =25°	4.8	5.0	5.2	V
		7V? V _I ? 20V, I _O =1mA-40mA	4.75	-	5.25	V
		7V? V _I ? V _{MAX.} , I _O =1mA-70mA	4.75	-	5.25	V
Load Regulation	Δ V _O	I _O =1mA-100mA, T _J =25°	-	11	60	mV
		I _O =1mA-40mA, T _J =25°	-	5.0	30	
Line Regulation	Δ V _O	7.0V≤V _I ≤20V, T _J =25°	-	8	150	mV
		8.0V≤V _I ≤20V, T _J =25°	-	1.6	50	
Quiescent Current	I _Q		-	2.0	5.5	mA
Quiescent Current Change	ΔI _Q	8.0V≤V _I ≤20V	-	-	1.5	mA
		1.0mA≤I _O ≤40mA	-	-	0.1	
Output Noise Voltage	V _n	10Hz≤f≤100KHz	-	40	-	μV
Ripple Rejection	RR	f=120Hz, 8.0V≤V _I ≤20V, T _J =25°C	-	80	-	dB
Dropout Voltage	V _D	T _J =25°C	41	1.7	-	V



®

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