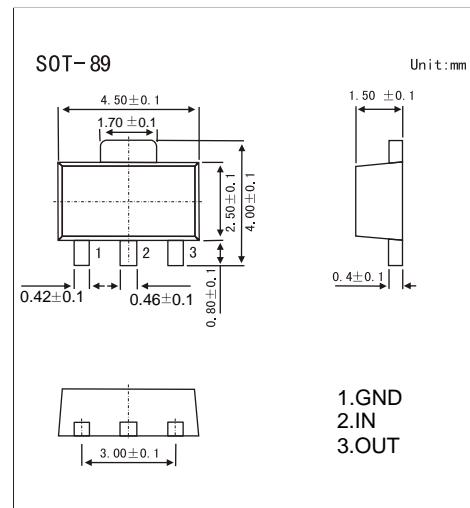


Three-Terminal Negative Voltage Regulator

79L05

■ Features

- Maximum Output current I_{OM}: 0.1 A
- Output voltage V_O: -5 V
- Continuous total dissipation P_D: 0.5 W
- Marking: 79L05



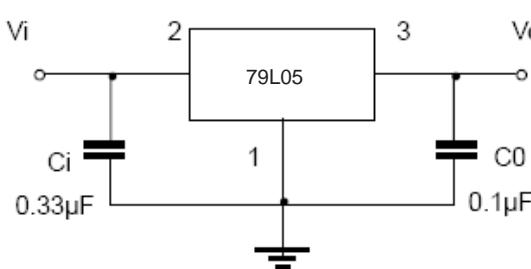
■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Input Voltage	V _I	-30	V
Operating Junction Temperature Range	T _{OPR}	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

■ Electrical Characteristics (Vi=-10V, Io=40mA, 0°C < Tj < 125°C, Ci=0.33 μF, Co=0.1 μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V _O	T _j =25°C	-4.8	-5.0	-5.2	V
		-7V ≤ V _I ≤ -20V, I _O =1mA-40mA	-4.75	-5.0	-5.25	V
		I _O =1mA-70mA	-4.75	-5.0	-5.25	V
Load regulation	△V _O	T _j =25°C, I _O =1mA-100mA		11	60	mV
		T _j =25°C, I _O =1mA-40mA		5.0	30	mV
Line regulation	△V _O	-7V ≤ V _I ≤ -20V, T _j =25°C	32	150	100	mV
		-8V ≤ V _I ≤ -20V, T _j =25°C	26	100	100	mV
Quiescent current	I _Q	T _j =25°C		3.8	6	mA
Quiescent current change	△I _Q	0°C < T _j < 125°C, -8V ≤ V _I ≤ -20V			1.5	mA
	△I _Q	0°C < T _j < 125°C, 1mA ≤ I _O ≤ 40mA			0.1	mA
Output noise voltage	V _N	10Hz ≤ f ≤ 100KHz, T _j =25°C		42		uV
Ripple rejection	RR	-8V ≤ V _I ≤ -18V, f=120Hz	41	49		dB
Dropout voltage	V _d	T _j =25°C,		1.7		V

■ Typical Application





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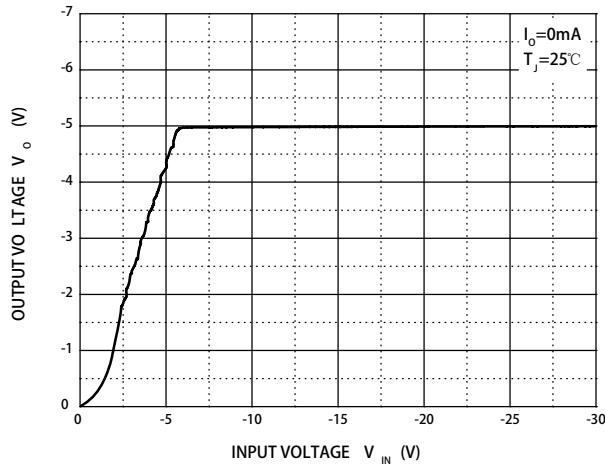
SMD Type

IC

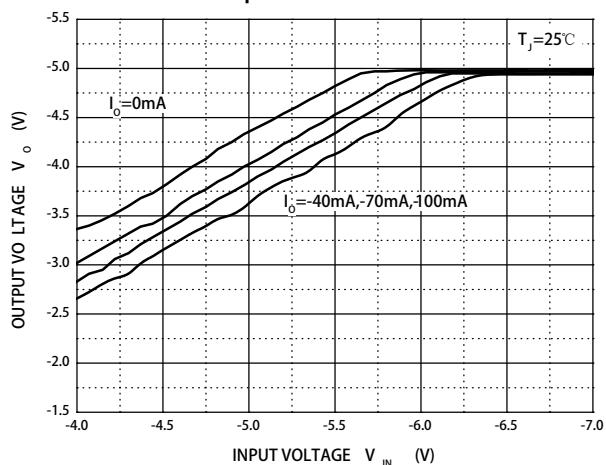
79L05

■ Typical Characteristics

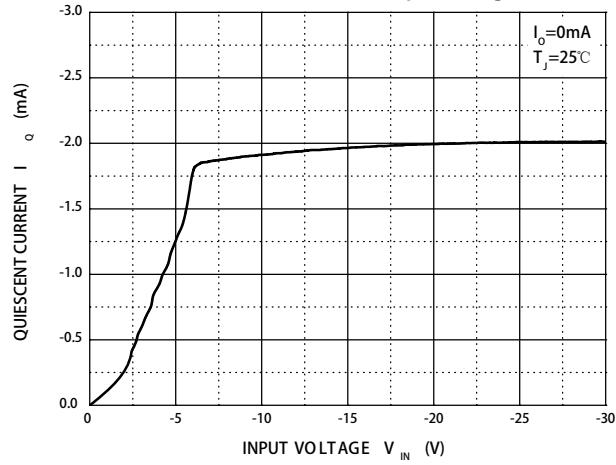
Output Characteristics



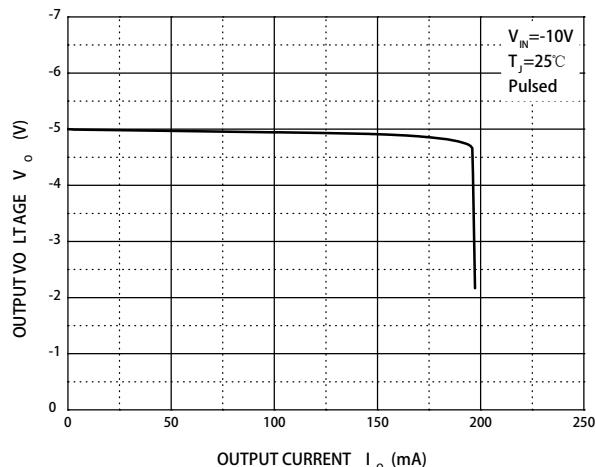
Dropout Characteristics



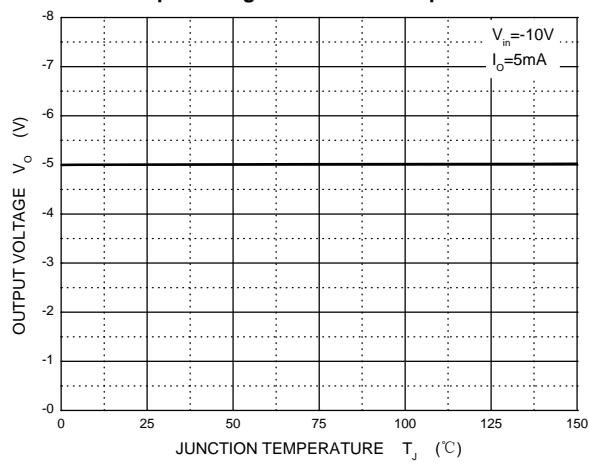
Quiescent Current vs Input Voltage



Current Cut-off Grid Voltage



Output Voltage vs Junction Temperature



Power Derating Curve

