Table 4. Electrical characteristics of L78L05C - Refer to the test circuits, T_J = 0 to 125 °C, V_I = 10 V, I_O = 40 mA, C_I = 0.33 µF, C_O = 0.1 µF unless otherwise specified

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	T_J = 25 °C	4.6	5	5.4	V
V_O	Output voltage	I_O = 1 to 40 mA, V_I = 7 to 20 V	4.5		5.5	V
		I_O = 1 to 70 mA, V_I = 10 V	4.5		5.5	
ΔV_O	Line regulation	V_I = 8.5 to 20 V, T_J = 25 °C			200	mV
		V_I = 9 to 20 V, T_J = 25 °C			150	
ΔV_O	Load regulation	I_O = 1 to 100 mA, T_J = 25 °C			60	mV
		I_O = 1 to 40 mA, T_J = 25 °C			30	
I_d	Quiescent current	T_J = 25 °C			6	mA
		T_J = 125 °C			5.5	mA
ΔI_d	Quiescent current change	I_O = 1 to 40 mA			0.2	mA
		V_I = 8 to 20 V			1.5	
eN	Output noise voltage	B = 10 Hz to 100 kHz, T_J = 25 °C		40		µV
SVR	Supply voltage rejection	V_I = 9 to 20 V, f = 120 Hz I_O = 40 mA, T_J = 25 °C	40	49		dB
V_d	Dropout voltage			2		V