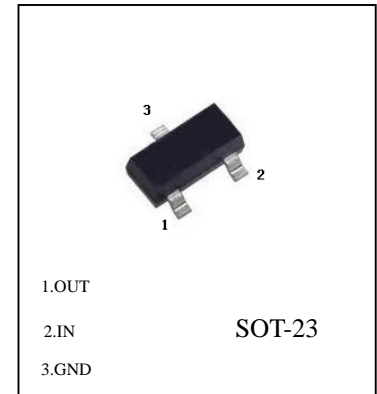


FEATURES

 Maximum Output current I_O : 0.1 A

 Output voltage V_O : 6 V

 Continuous total dissipation P_D : 0.35 W ($T_a = 25^\circ\text{C}$)

78L06

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies)

Parameter	Symbol	Value	Unit
Input Voltage	V_I	30	V
Operating Junction Temperature Range	TOPR	0-125	$^\circ\text{C}$
Storage Temperature Range	TSTG	-65-150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($V_i=10\text{V}, I_o=500\text{mA}, C_i=0.33\mu\text{F}, C_o=0.1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output voltage	V_O	25°C	5.75	6.0	6.25	V	
		0-125 $^\circ\text{C}$	8V V_I 20V, $I_o=1\text{mA}-40\text{mA}$	5.7	6.0	6.3	V
			$I_o=1\text{mA}-70\text{mA}$	5.7	6.0	6.3	V
Load Regulation	V_O	$I_o=1\text{mA}-100\text{mA}$	25°C	16	80	mV	
		$I_o=1\text{mA}-40\text{mA}$	25°C	9	40	mV	
Line regulation	V_O	8V V_I 20V	25°C	35	175	mV	
		9V V_I 20V	25°C	29	125	mV	
Quiescent Current	I_q	25°C		3.9	6.0	mA	
Quiescent Current Change	I_q	9V V_I 20V	0-125 $^\circ\text{C}$		1.5	mA	
	I_q	1mA I_O 40mA	0-125 $^\circ\text{C}$		0.1	mA	
Output Noise Voltage	V_N	10Hz f 100KHz	25°C	46		uV	
Ripple Rejection	RR	9V V_I 19V, f=120Hz	0-125 $^\circ\text{C}$	40	48	dB	
Dropout Voltage	V_d	25°C		1.7		V	

78L06 Typical Characteristics

