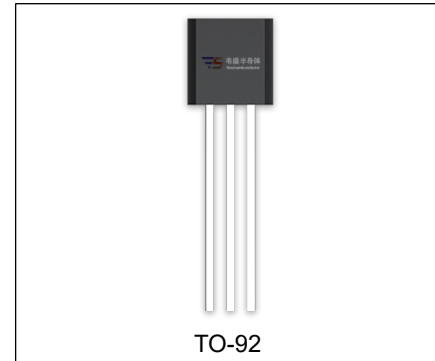


VS79L06 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -6V$
- Continuous total dissipation
 $P_D: 0.625 W (T_a = 25 ^\circ C)$



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
VS79L06	TO-92	Bulk	1000pcs/Bag
VS79L06-TA	TO-92	Tape	2000pcs/Box

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	200	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	-40~+125	$^\circ C$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ C$

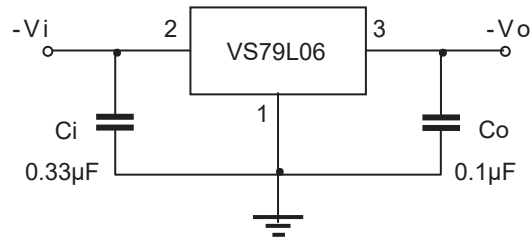
T_a=25 °C unless otherwise specified

(V_I=-11V, I_o=40mA, C_i=0.33 μF, C_o=0.1 μF, unless otherwise specified)

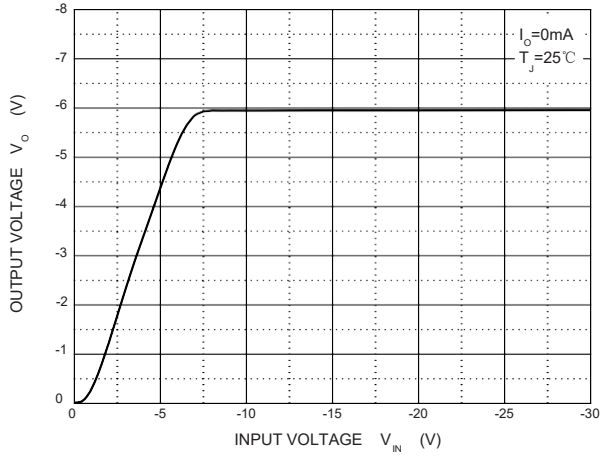
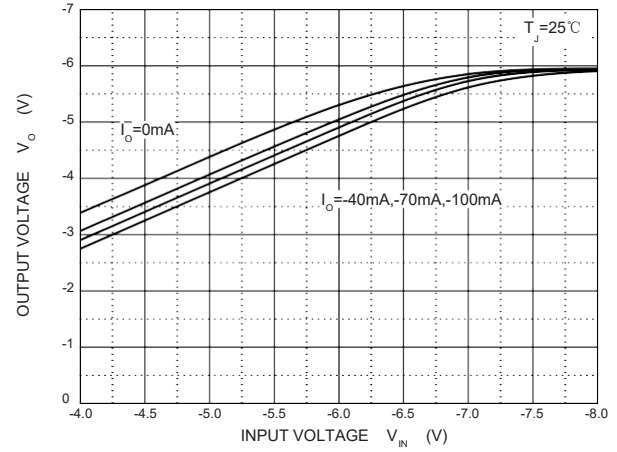
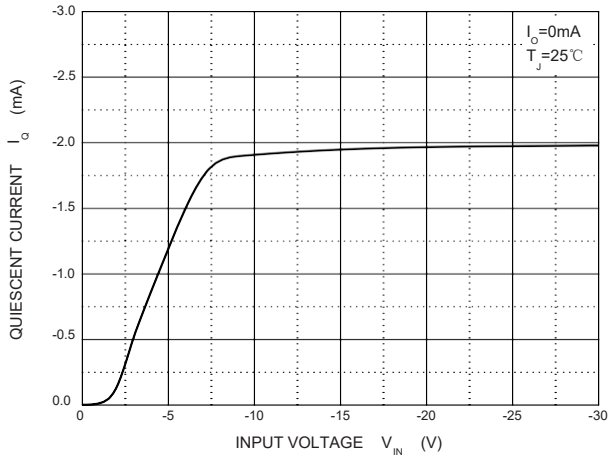
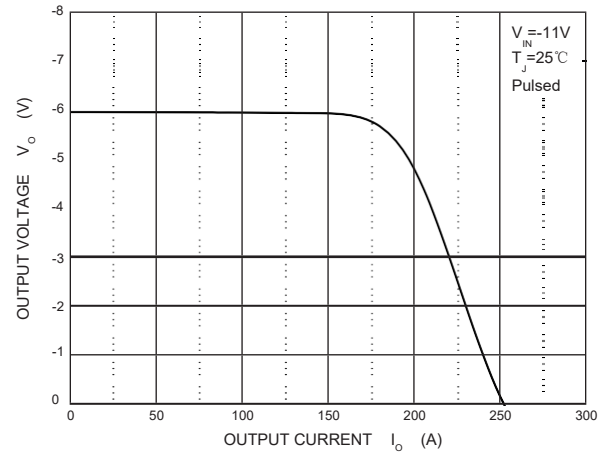
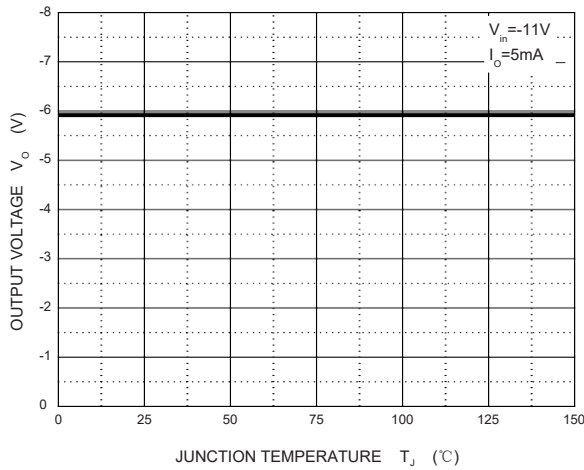
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V _o	T _J =25°C	-5.82	-6.0	-6.18	V
		-8V≤V _I ≤-20V, I _o =1mA~40mA	-5.7	-6.0	-6.3	V
		I _o =1mA~70mA	-5.7	-6.0	-6.3	V
Load Regulation	ΔV _o	I _o =1mA~100mA, T _J =25°C		21	80	mV
		I _o =1mA~40mA, T _J =25°C		11	40	mV
Line Regulation	ΔV _o	-8V≤V _I ≤-20V, T _J =25°C		20	175	mV
		-9V≤V _I ≤-20V, T _J =25°C		15	125	mV
Quiescent Current	I _q	T _J =25°C		3.9	6.0	mA
Quiescent Current Change	ΔI _q	-9V≤V _I ≤-20V			1.5	mA
	ΔI _q	1mA≤V _I ≤40mA			0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz, T _J =25°C		44		μV/V _o
Ripple Rejection	RR	-9V≤V _I ≤-19V, f=120HZ	40	48		dB
Dropout Voltage	V _d	T _J =25°C		1.7		V

* Pulse test.

TYPICAL APPLICATION



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close possible to the regulators.

Output Characteristics

Dropout Characteristics

Quiescent Current vs Input Voltage

Current Cut-off Grid Voltage

Output Voltage vs Junction Temperature

Power Derating Curve
