CHINA BASE INTERNATIONAL

SOT-89

79L12

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Plastic-Encapsulate Voltage Regulator

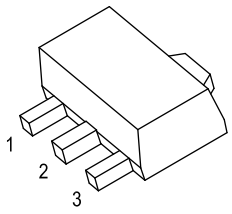
Three-terminal negative voltage regulator

FEATURES

- Maximum output current
  I_{OM}: 0.1A
- Output voltage
  V_o: -1 2 V
- Continuous total dissipation
  P_D:0.6 W (T_a= 25 ℃)

SOT-89-3L

1. GND
2. IN
3.OUT



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

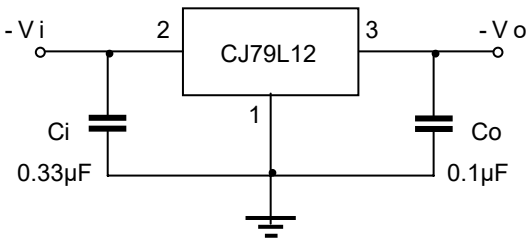
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	208.3	℃/W
Operating Junction Temperature Range	T_{OPR}	-40~+125	℃
Storage Temperature Range	T_{STG}	-65~+150	℃

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE(Vi=-19V,Io=40mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_J=25℃	-11.64	-12	-12.36	V
		-14.5V≤V_I≤-27V, Io=1mA~40mA	-11.4	-12	-12.6	V
		Io=1mA~70mA	-11.4	-12	-12.6	V
Load Regulation	ΔVo	Io=1mA~100mA ,T_J=25℃		24	100	mV
		Io=1mA~40mA ,T_J=25℃		15	50	mV
Line Regulation	ΔVo	-14.5V≤V_I≤-27V ,T_J=25℃		50	250	mV
		-16V≤V_I≤-27V ,T_J=25℃		40	200	mV
Quiescent Current	Iq	T_J=25℃			6.5	mA
Quiescent Current Change	ΔIq	-16V≤V_I≤-27V			1.5	mA
	ΔIq	1mA≤I_O≤40mA			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz ,T_J=25℃		80		μV/Vo
Ripple Rejection	RR	-15V≤V_I≤-25V,f=120Hz	37	42		dB
Dropout Voltage	Vd	T_J=25℃		1.7		V

* Pulse test.

TYPICAL APPLICATION

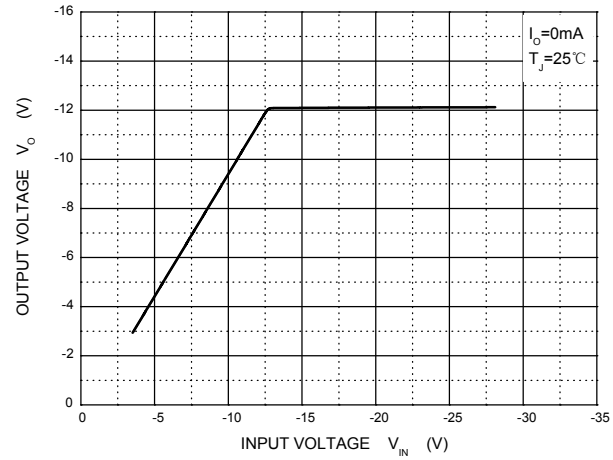


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

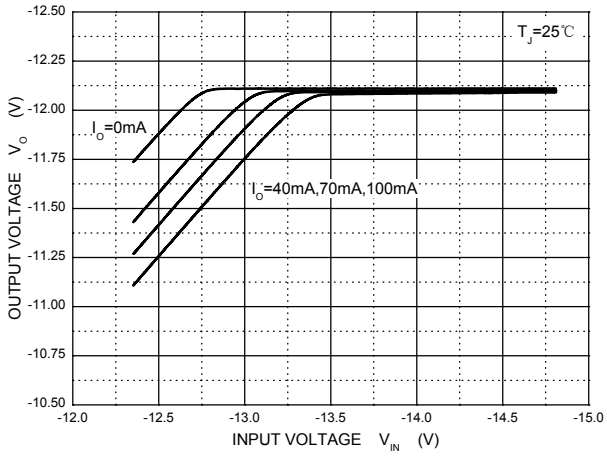
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Typical Characteristics

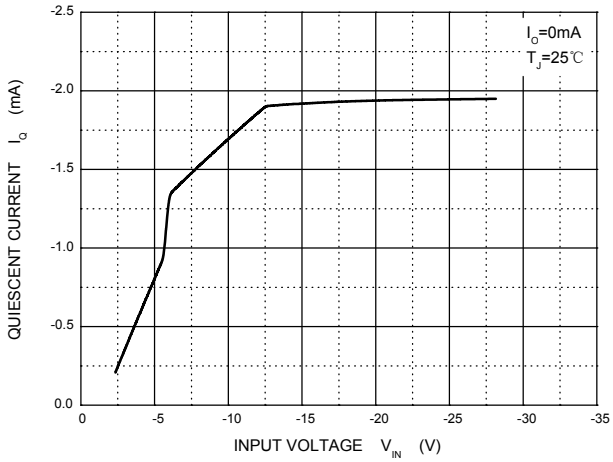
Output Characteristics



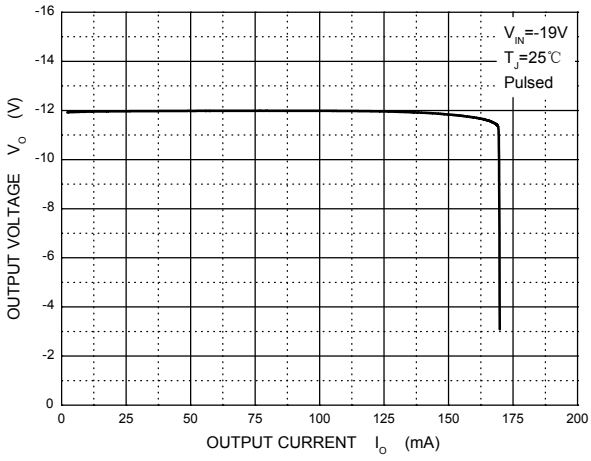
Dropout Characteristics



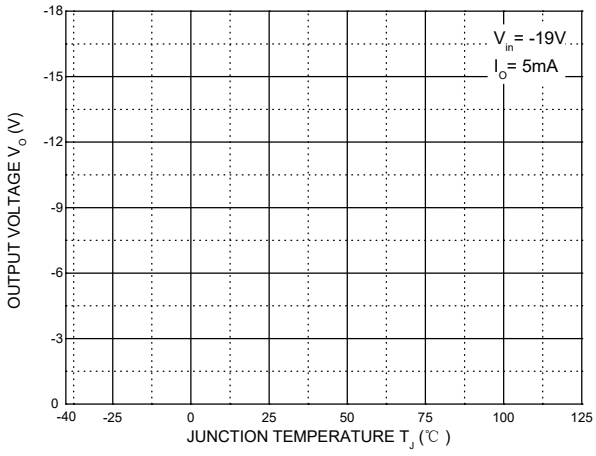
Quiescent Current vs Input Voltage



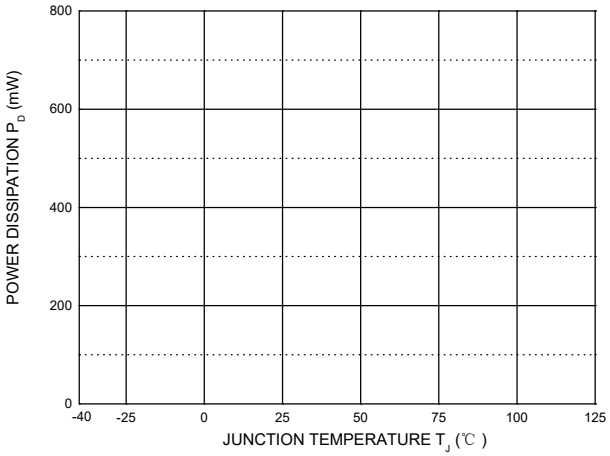
Current Cut-off Grid Voltage



Output Voltage vs Junction Temperature



Power Derating Curve



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