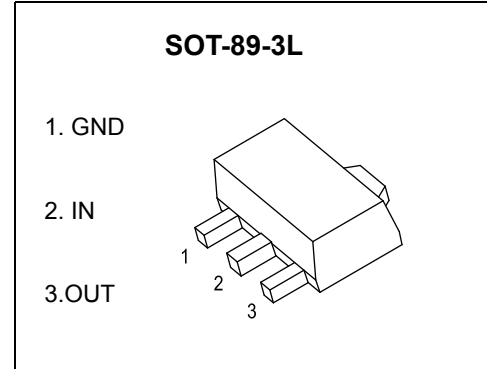


Plastic-Encapsulate Voltage Regulator

Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -1.2V$
- Continuous total dissipation
 $P_D: 0.6W$ ($T_a = 25^\circ C$)



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

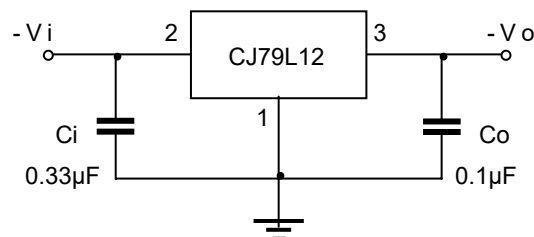
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	208.3	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	-40~+125	$^\circ C$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ C$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i = -19V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	$T_J = 25^\circ C$	-11.64	-12	-12.36	V
		$-14.5V \leq V_i \leq -27V, I_o = 1mA \sim 40mA$	-11.4	-12	-12.6	V
		$I_o = 1mA \sim 70mA$	-11.4	-12	-12.6	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA, T_J = 25^\circ C$		24	100	mV
		$I_o = 1mA \sim 40mA, T_J = 25^\circ C$		15	50	mV
Line Regulation	ΔV_o	$-14.5V \leq V_i \leq -27V, T_J = 25^\circ C$		50	250	mV
		$-16V \leq V_i \leq -27V, T_J = 25^\circ C$		40	200	mV
Quiescent Current	I_q	$T_J = 25^\circ C$			6.5	mA
Quiescent Current Change	ΔI_q	$-16V \leq V_i \leq -27V$			1.5	mA
	ΔI_q	$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz, T_J = 25^\circ C$		80		$\mu V/V_o$
Ripple Rejection	RR	$-15V \leq V_i \leq -25V, f = 120Hz$	37	42		dB
Dropout Voltage	V_d	$T_J = 25^\circ C$		1.7		V

* Pulse test.

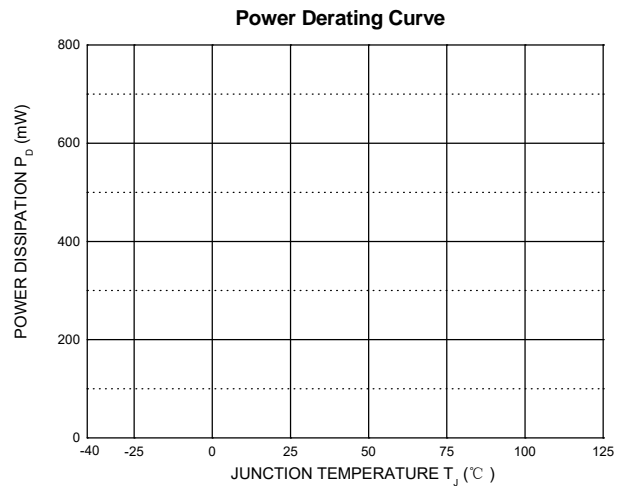
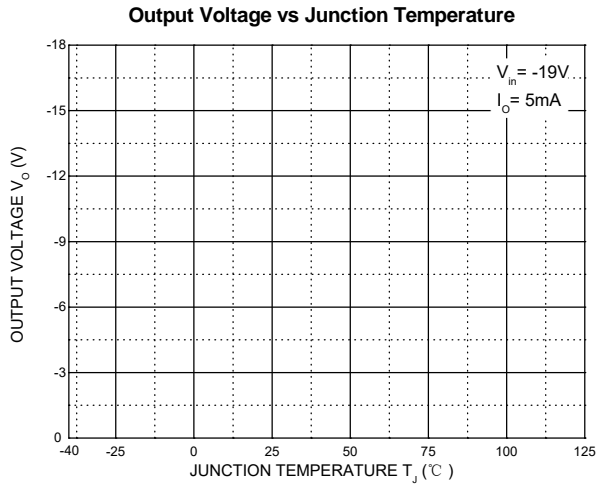
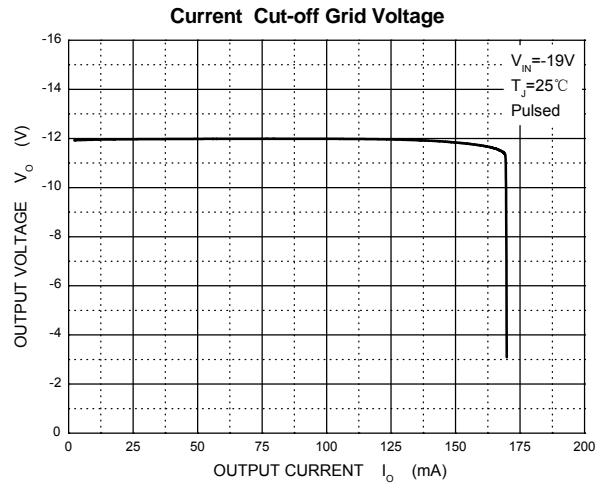
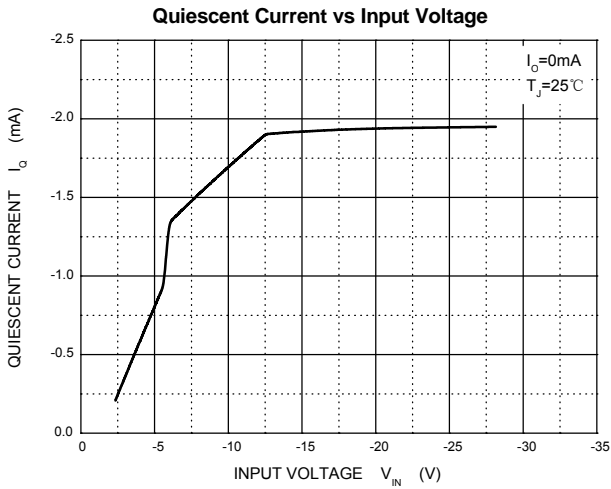
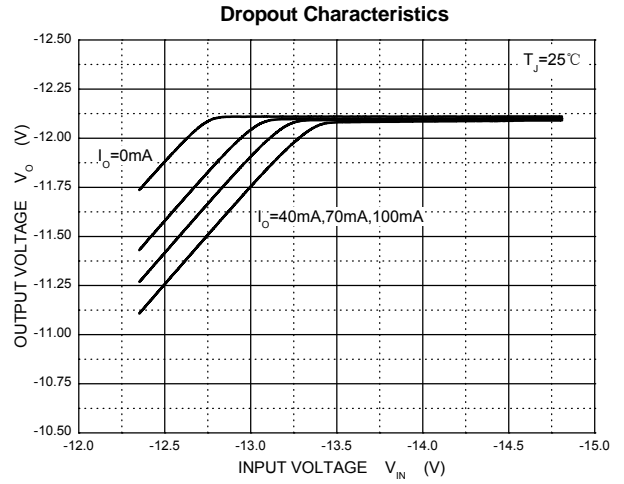
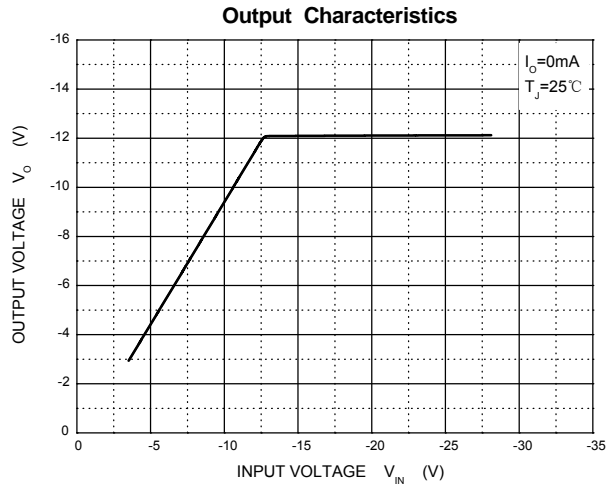
TYPICAL APPLICATION



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

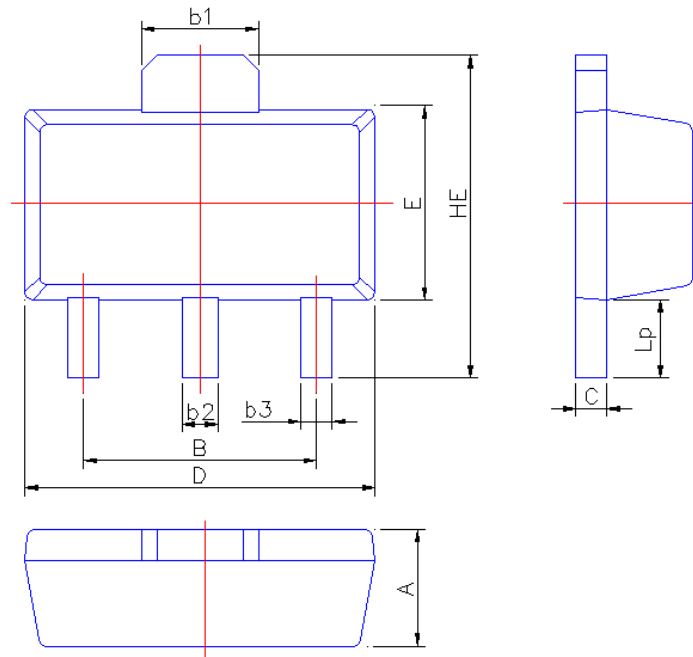


Typical Characteristics





SOT-89 PACKAGE OUTLINE



Symbol	Dimension in Millimeters	
	Min	Max
A	1.40	1.60
B	2.95	3.05
b1	1.45	1.70
b2	0.45	0.56
b3	0.35	0.50
C	0.35	0.50
D	4.40	4.60
E	2.35	2.55
HE	3.90	4.40
Lp	0.90	1.10