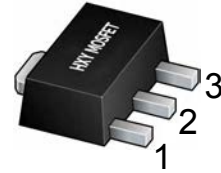




Features

- Maximum output current
 I_{OM} : -0.1A
- Output voltage
 V_O : -12V
- Continuous total dissipation
 P_D : 0.625 W ($T_a = 25^\circ\text{C}$)



- 1: GND
- 2: IN
- 3: OUT

SOT-89

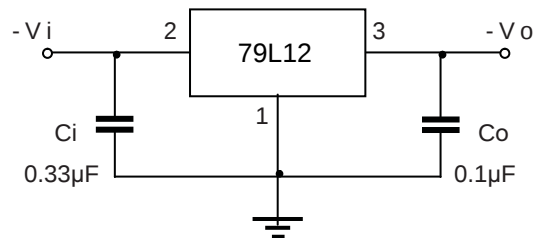
Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
79L12	SOT-89	79L12	1000

Applications

- TV Board
- Air Conditioner
- Vehicle Mounted Radar
- Charging Device

Typical Application Circuit





Absolute Maximum Ratings

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

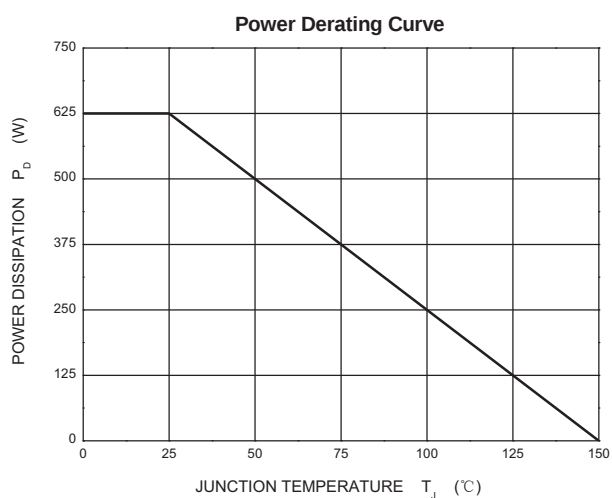
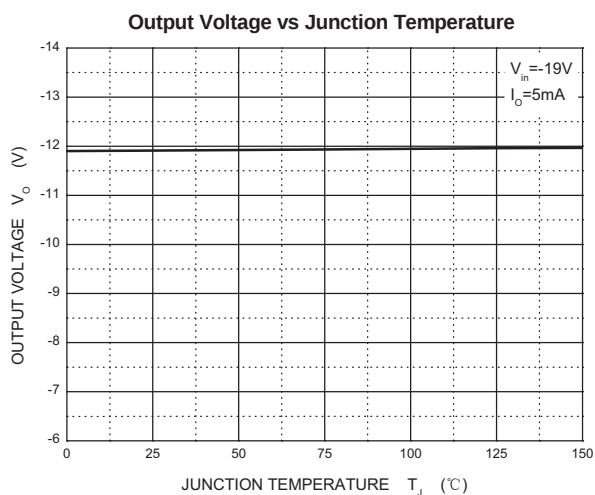
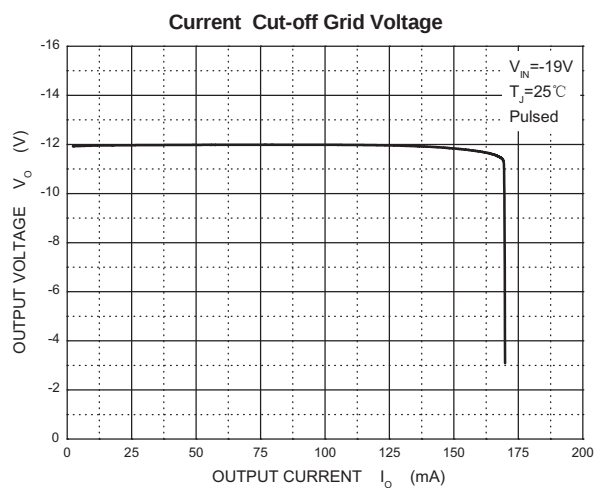
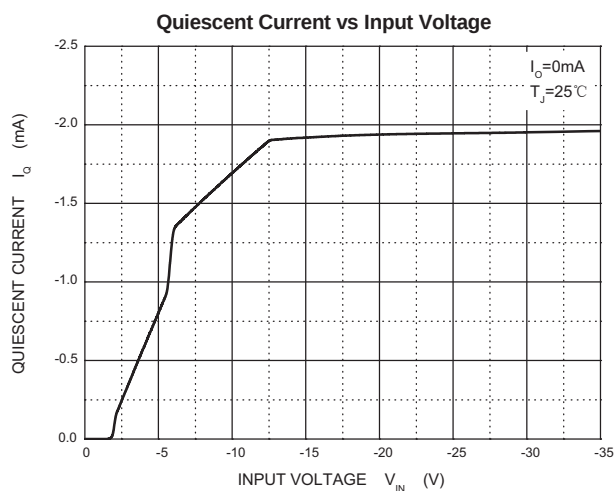
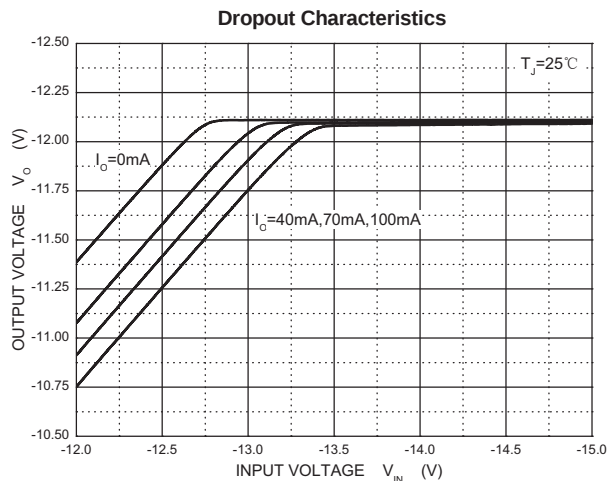
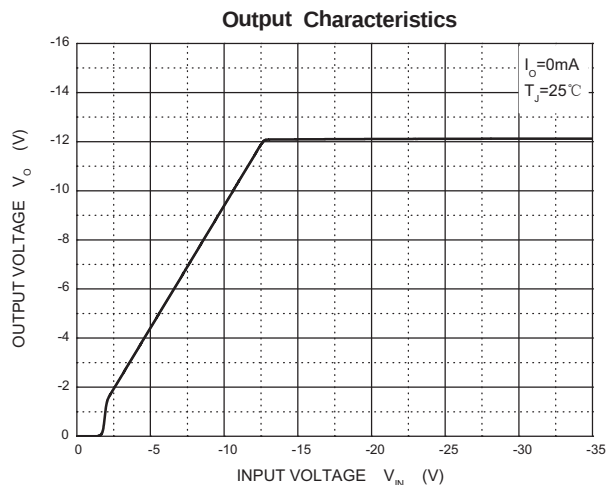
Electrical Characteristics

78L12 ($V_{\text{OUT}} = 12\text{V}$, $V_{\text{IN}} = 19\text{V}$, $I_{\text{OUT}} = 40\text{mA}$, $C_{\text{IN}} = 0.33\mu\text{F}$, $C_{\text{OUT}} = 0.1\mu\text{F}$, $T_J = 25^{\circ}\text{C}$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	25°C	-11.52	-12	-12.48	V
		$-14.5\text{V} \leq V_i \leq -27\text{V}$, $I_o = 1\text{mA} \sim 40\text{mA}$	-11.4	-12	-12.6	V
		$I_o = 1\text{mA} \sim 70\text{mA}$	-11.4	-12	-12.6	V
Load Regulation	ΔV_o	$I_o = 1\text{mA} \sim 100\text{mA}$	25°C	24	100	mV
		$I_o = 1\text{mA} \sim 40\text{mA}$	25°C	15	50	mV
Line Regulation	ΔV_o	$-14.5\text{V} \leq V_i \leq -27\text{V}$	25°C	50	250	mV
		$-16\text{V} \leq V_i \leq -27\text{V}$	25°C	40	200	mV
Quiescent Current	I_q	25°C			6.5	mA
Quiescent Current Change	ΔI_q	$-16\text{V} \leq V_i \leq -27\text{V}$	$0 \sim 125^{\circ}\text{C}$		1.5	mA
	ΔI_q	$1\text{mA} \leq I_o \leq 40\text{mA}$	$0 \sim 125^{\circ}\text{C}$		0.1	mA
Output Noise Voltage	V_N	$10\text{Hz} \leq f \leq 100\text{KHz}$	25°C	80		$\mu\text{V}/V_o$
Ripple Rejection	RR	$-15\text{V} \leq V_i \leq -25\text{V}$, $f = 120\text{Hz}$	$0 \sim 125^{\circ}\text{C}$	37	42	dB
Dropout Voltage	V_d	25°C		1.7		V

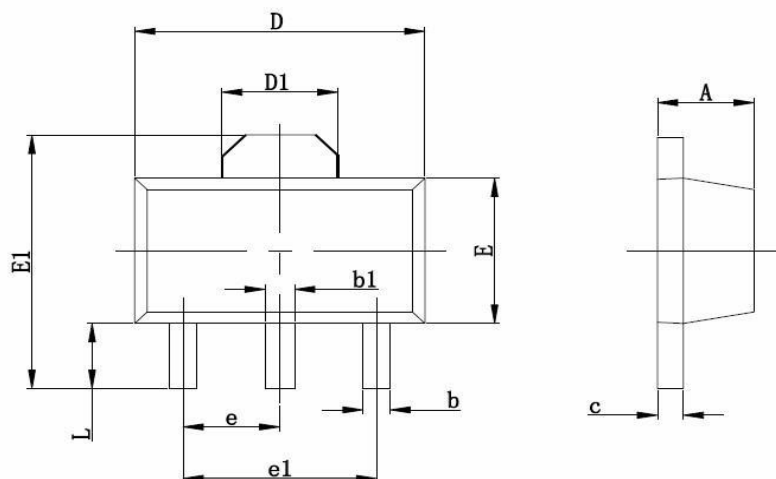


Typical Characteristics





SOT-89 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047



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