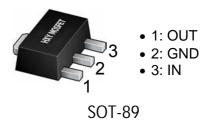


#### **Features**

- Maximum output current <sub>OM</sub>: -0.1A
- Output voltage
   V<sub>O</sub>: -12V
- Continuous total dissipation
   P<sub>D</sub>: 0.625 W (T<sub>a</sub>= 25 °C)

# **Pin Configuration**



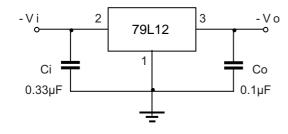
**Package Marking and Ordering Information** 

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	Vi	-30	V
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	200	°C/W
Operating Junction Temperature Range	T <sub>OPR</sub>	-40~+125	°C
Storage Temperature Range	T <sub>STG</sub>	-65~+150	°C

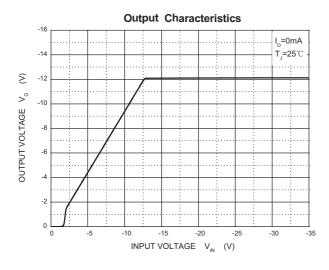
#### **Electrical Characteristics**

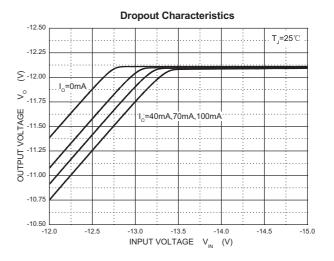
78L12 (V<sub>OUT</sub> = 12V, V<sub>IN</sub> = 19V, I<sub>OUT</sub> = 40mA, C<sub>IN</sub> = 0.33 $\mu$ F, C<sub>OUT</sub> = 0.1 $\mu$ F, T<sub>J</sub> = 25°C, unless otherwise specified)

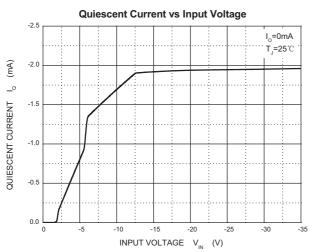
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
	Vo		25℃	-11.52	-12	-12.48	V
Output Voltage		-14.5V≤V <sub>I</sub> ≤-27V, lo=1mA~40mA	0-125℃	-11.4	-12	-12.6	V
		Io=1mA~70mA		-11.4	-12	-12.6	V
Load Regulation	ΔVο	Io=1mA~100mA	25℃		24	100	mV
Load Regulation	4	Io=1mA~40mA	25℃		15	50	mV
Line Regulation	ΔVο	-14.5V≤V <sub>I</sub> ≤-27V	25℃		50	250	mV
Line Regulation	Δνο	-16V≤V <sub>I</sub> ≤-27V	25℃		40	200	mV
Quiescent Current	Iq		25℃			6.5	mA
Quiescent Current Change	Δlq	-16V≤V <sub>I</sub> ≤-27V	0-125℃			1.5	mA
Quicocon ourient orlange	Δlq	1mA≤I <sub>O</sub> ≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V <sub>N</sub>	10Hz≤f≤100KHz	25℃		80		μV/Vo
Ripple Rejection	RR	-15V≤V <sub>I</sub> ≤-25V,f=120Hz	0-125℃	37	42		dB
Dropout Voltage	Vd		25℃		1.7		V

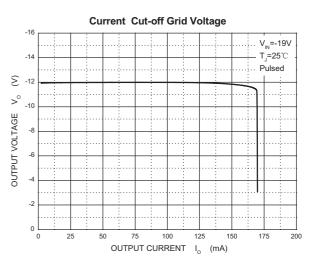


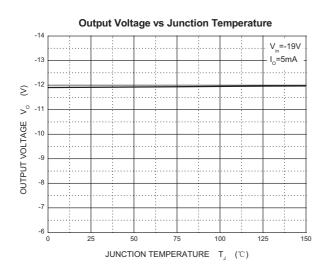
### **Typical Characteristics**

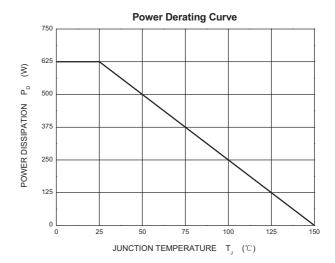






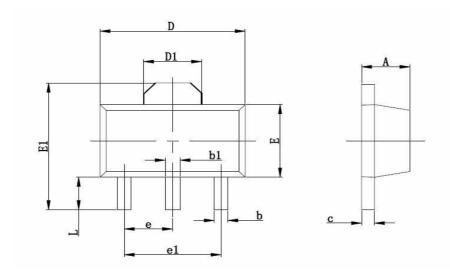




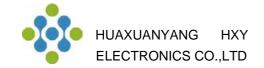




# **SOT-89 Package Outline Dimensions**



Cymphol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	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	
С	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	
е	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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