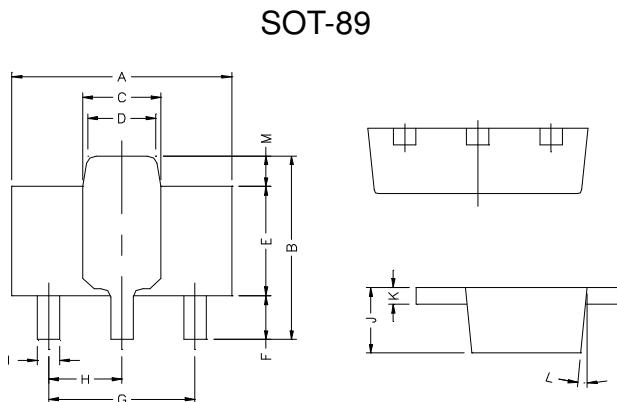
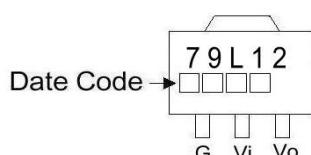


## Description

The SM79L12 series of three-terminal negative regulators are available in the SOT-89 package. They can provide local on card-regulation, eliminating the distribution problems associated with single point regulation; furthermore, having the same voltage options as the SM79L12 positive standard series, they are particularly suited for split power supplies. If adequate heat sinking is provided, the SM79L12 series can deliver an output current in excess of 100mA although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltage and currents.



## Marking :

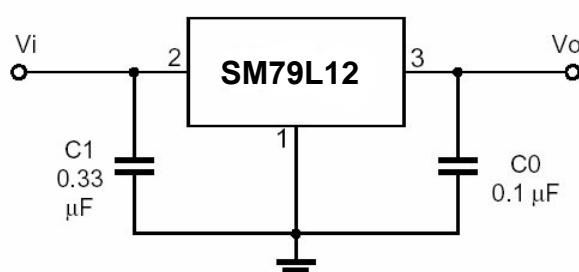


REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

## Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Input Voltage	$V_{IN}$	-35	V
Output Current	$I_o$	100	mA
Operating Junction Temperature Range	$T_j$	0~+125	°C
Storage Temperature Range	$T_{STG}$	-55~+150	°C
Total Power Dissipation	$P_D$	350	mW

## Application Circuit



**Electrical Characteristics at Ta=25°C**
**Rank A (3%)**  $V_i = -19V, I_o = 40mA, T_j = 25^\circ C, C_{IN} = 0.33\mu F, C_{OUT} = 0.1\mu F$  unless otherwise specified

<b>Symbol</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>	<b>Test Condition</b>
$V_o$	-11.58	-12	-12.42	V	$V_{IN} = -19V, I_o = 40mA$
$\Delta V_o - V_{IN}$ (Line Regulation)	–	36	250	mV	$V_{IN} = -14.5V \sim -27V, I_o = 40mA$
$\Delta V_o - I_o$ (Load Regulation)	–	16	100	mV	$V_{IN} = -19V, I_o = 1 \sim 100mA$
$I_q$ Quiescent Current	–	3.5	6	mA	$V_{IN} = -19V, I_o = 40mA$
$V_{NO}$ Output Noise Voltage	–	210	–	uV	$V_{IN} = -19V, BW = 10Hz \sim 100KHz, I_o = 40mA$
RR Ripple Rejection	37	64	–	dB	$V_{IN} = -15V \sim -25V, I_o = 40mA, E_{IN} = 1V_{P-P}, f = 190Hz$

**Rank B (5%)**  $V_i = -19V, I_o = 40mA, T_j = 25^\circ C, C_{IN} = 0.33\mu F, C_{OUT} = 0.1\mu F$  unless otherwise specified

<b>Symbol</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>	<b>Test Condition</b>
$V_o$	-11.4	-12	-12.6	V	$V_{IN} = -19V, I_o = 40mA$
$\Delta V_o - V_{IN}$ (Line Regulation)	–	36	250	mV	$V_{IN} = -14.5V \sim -27V, I_o = 40mA$
$\Delta V_o - I_o$ (Load Regulation)	–	16	100	mV	$V_{IN} = -19V, I_o = 1 \sim 100mA$
$I_q$ Quiescent Current	–	3.5	6	mA	$V_{IN} = -19V, I_o = 40mA$
$V_{NO}$ Output Noise Voltage	–	210	–	uV	$V_{IN} = -19V, BW = 10Hz \sim 100KHz, I_o = 40mA$
RR Ripple Rejection	37	64	–	dB	$V_{IN} = -15V \sim -25V, I_o = 40mA, E_{IN} = 1V_{P-P}, f = 190Hz$