

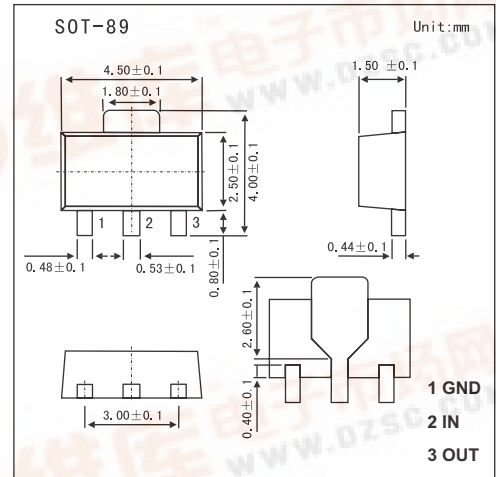
SMD Type IC

## Three-terminal negative voltage regulator

### LM79L08

■ Features

- Maximum output current  $I_{om}$ : 0.1A.
- Output voltage:  $V_o$ : -8V.
- Continuous total dissipation  $P_D$ : 0.5 W



■ Absolute Maximum Ratings  $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Input Voltage	$V_i$	-30	V
Operating junction temperature range	$T_{OPR}$	-55 to +125	$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ C$

■ Electrical Characteristics ( $V_i = -14V, I_o = 40mA, 0^\circ C < T_j < 125^\circ C, C_1 = 0.33 \mu F, C_o = 0.1 \mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_j = 25^\circ C$	-7.7	-8.0	-8.3	V
		$-10.5V \leq V_i \leq -23V, I_o = 1mA - 40mA$	-7.6	-8.0	-8.4	V
		$I_o = 1mA - 70mA$	-7.6	-8.0	-8.4	V
Load regulation	$\Delta V_o$	$T_j = 25^\circ C, I_o = 1mA - 100mA$		30	100	mV
		$T_j = 25^\circ C, I_o = 1mA - 40mA$		15	50	mV
Line regulation	$\Delta V_o$	$-10.5V \leq V_i \leq -23V, T_j = 25^\circ C$		42	200	mV
		$-11V \leq V_i \leq -23V, T_j = 25^\circ C$		36	150	mV
Quiescent current	$I_q$	$25^\circ C$		4	6	mA
Quiescent current change	$\Delta I_q$	$0^\circ C < T_j < 125^\circ C, -11V \leq V_i \leq -23V$			1.5	mA
		$0^\circ C < T_j < 125^\circ C, 1mA \leq I_o \leq 40mA$			0.1	mA
Output noise voltage	$V_N$	$10Hz \leq f \leq 100KHz, T_j = 25^\circ C$		54		$\mu V$
Ripple rejection	RR	$-11V \leq V_i \leq -21V, f = 120Hz$	37	46		dB
Dropout voltage	$V_d$	$T_j = 25^\circ C$		1.7		V

■ Typical Application

