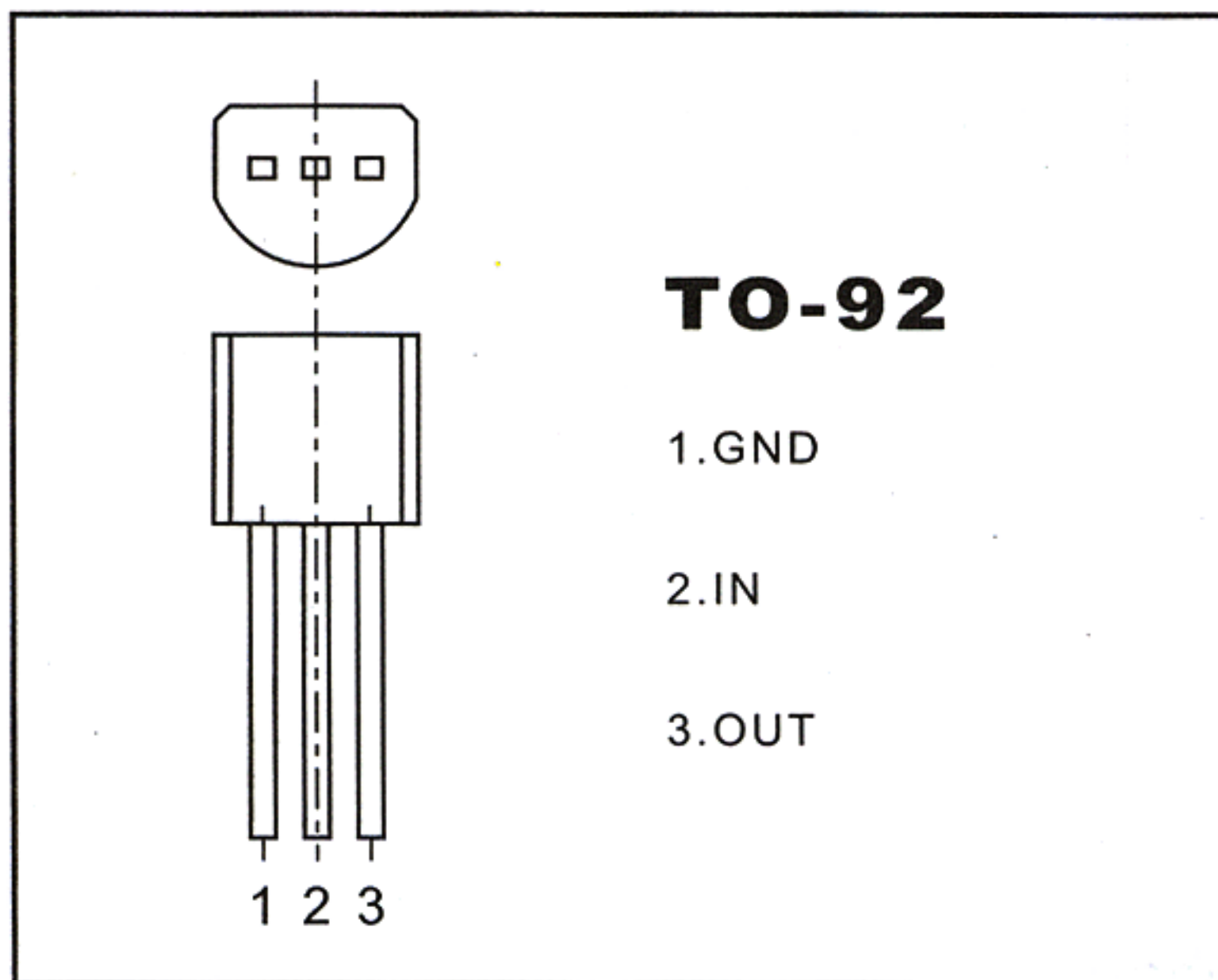


# Three-Terminal Low Current Voltage Regulators

## CJ79L09 Three-terminal negative voltage regulator



### FEATURES

#### Maximum Output current

$I_{OM}$ : 0.1 A

#### Output voltage

$V_o$  : -9 V

### ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input voltage	$V_i$	-30	V
Operating junction temperature range	$T_{opr}$	-30+75	°C
Storage temperature range	$T_{stg}$	-40+125	°C

### ELECTRICAL CHARACTERISTICS

( $V_i = -15V$ ,  $I_o = 40mA$ ,  $0^\circ C < T_j < 125^\circ C$ ,  $C_1 = 0.33 \mu F$ ,  $C_o = 0.1 \mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	$V_o$	$V_i = -15V$ , $I_o = 40mA$	-8.64	-9.0	-9.36	V
Line regulation	$V_o - V_i$	$V_i = -12.5 \sim -24V$ , $I_o = 40mA$		27	200	mV
Load regulation	$V_o - I_o$	$V_i = -15V$ , $I_o = 1 \sim 100mA$		12	90	mV
Quiescent current	$I_q$	$V_i = -15V$ , $I_o = 40mA$		3.5	6.0	mA
Ripple rejection	RR	$V_i = -12V \sim -22V$ , $I_o = 40mA$ , $e_{IN} = 1V_{P-P}$ , $f = 150Hz$	37	64		dB
Output noise voltage	$V_N$	$V_i = -15V$ , $BW = 10Hz \sim 100KH$ , $I_o = 40mA$		210		$\mu V$

### TYPICAL APPLICATION

