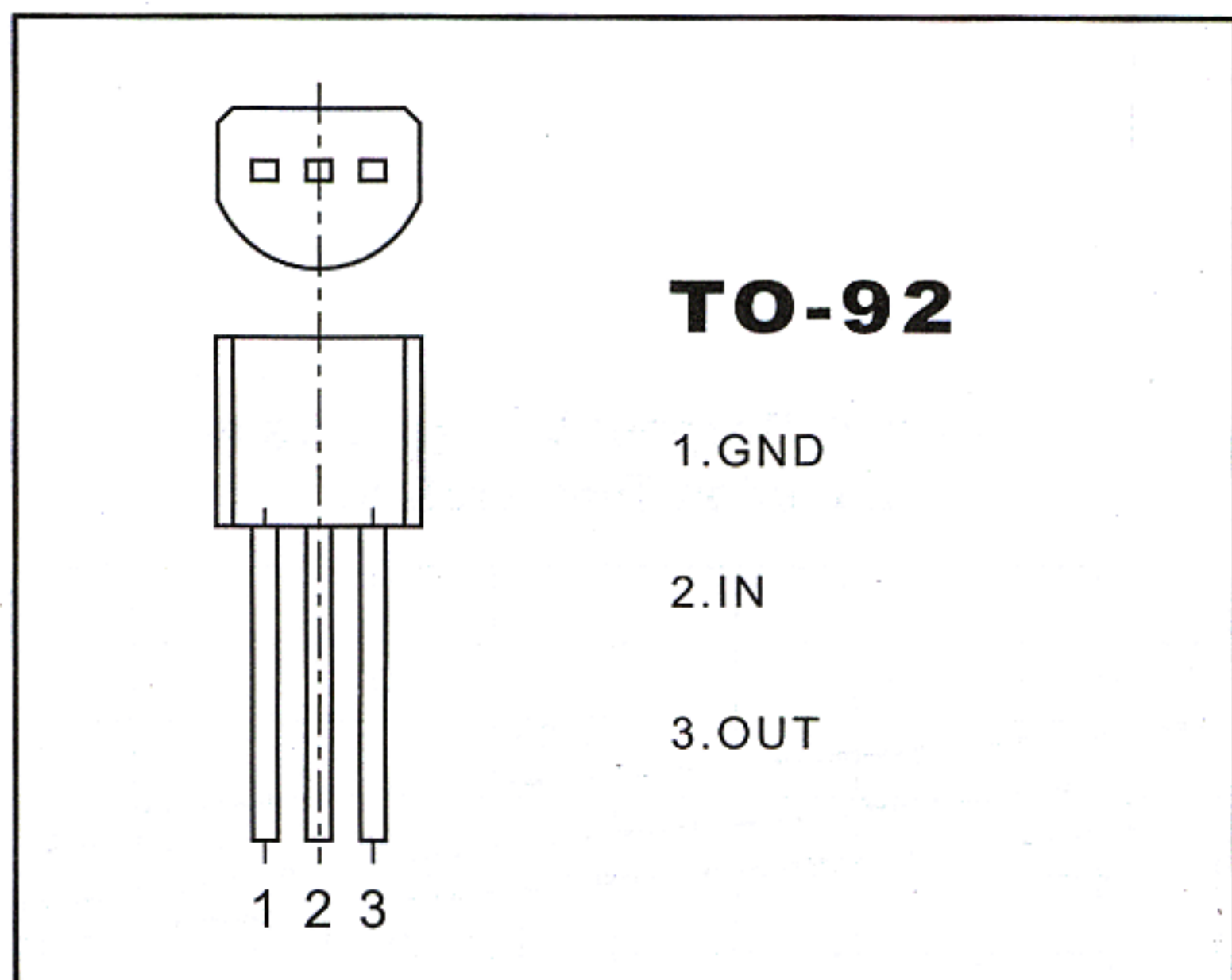


# Three-Terminal Low Current Voltage Regulators

## CJ79L05 Three-terminal negative voltage regulator



### FEATURES

#### Maximum Output current

$I_{OM}$ : 0.1 A

#### Output voltage

$V_o$  : -5 V

### ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherwise specified)

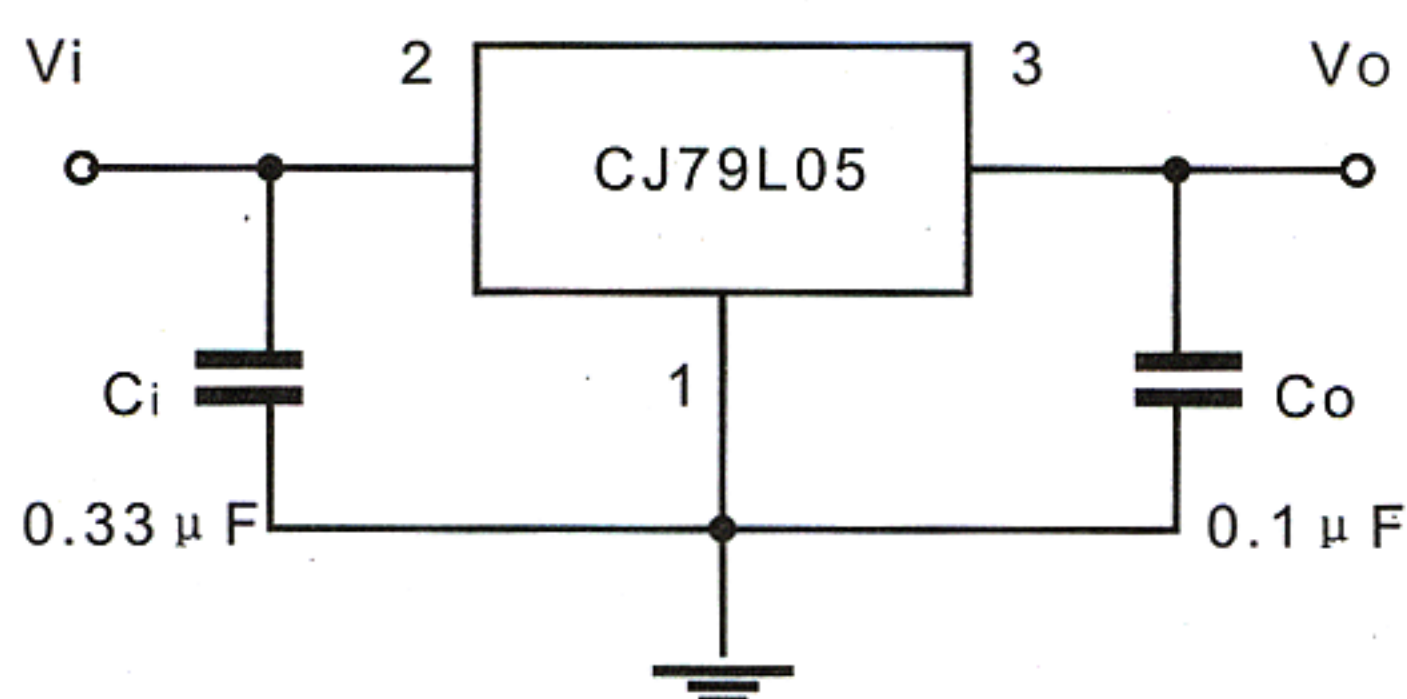
Parameter	Symbol	Value	Units
Input voltage	$V_i$	-30	V
Operating junction temperature range	$T_{opr}$	-30+75	°C
Storage temperature range	$T_{stg}$	-40+125	°C

### ELECTRICAL CHARACTERISTICS

( $V_i = -10V$ ,  $I_o = 40mA$ ,  $0^\circ C < T_j < 125^\circ C$ ,  $C_1 = 0.33 \mu F$ ,  $C_o = 0.1 \mu F$ , unless otherwise specified)

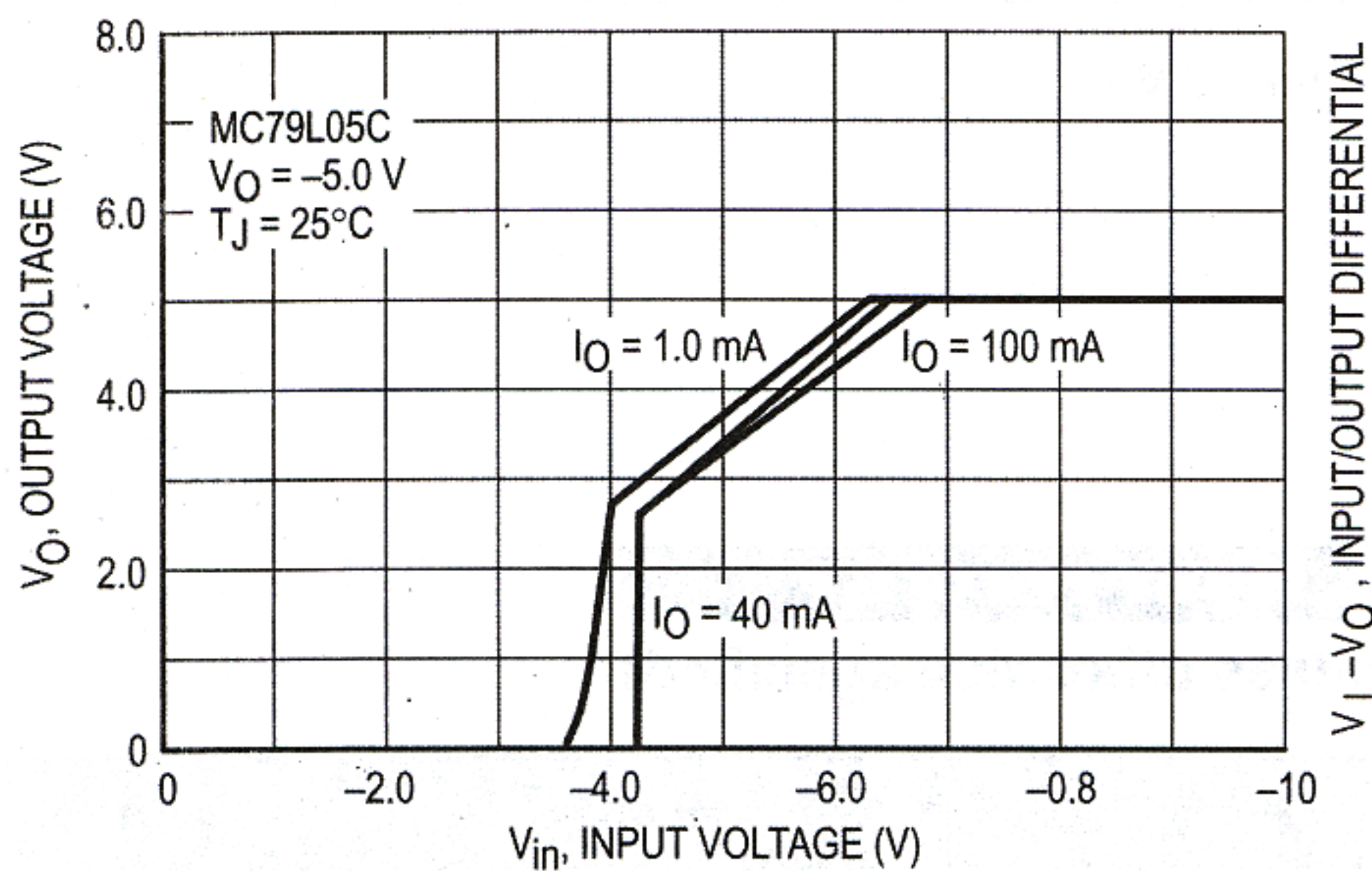
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	$V_o$	$V_i = -10V$ , $I_o = 40mA$	-4.8	-5.0	-5.2	V
Line regulation	$V_o - V_i$	$V_i = -7 \sim -20V$ , $I_o = 40mA$		15	150	mV
Load regulation	$V_o - I_o$	$V_i = -10V$ , $I_o = 1 \sim 100mA$		7	60	mV
Quiescent current	$I_q$	$V_i = -10V$ , $I_o = 40mA$		3.5	6.0	mA
Ripple rejection	RR	$V_i = -8V \sim -18V$ , $I_o = 40mA$ , $e_{IN} = 1VP-P$ , $f = 120Hz$	41	71		dB
Output noise voltage	$V_N$	$10Hz \leq f \leq 100KHz$ , $V_i = -10V$ , $I_o = 40mA$		120		$\mu V$

### TYPICAL APPLICATION

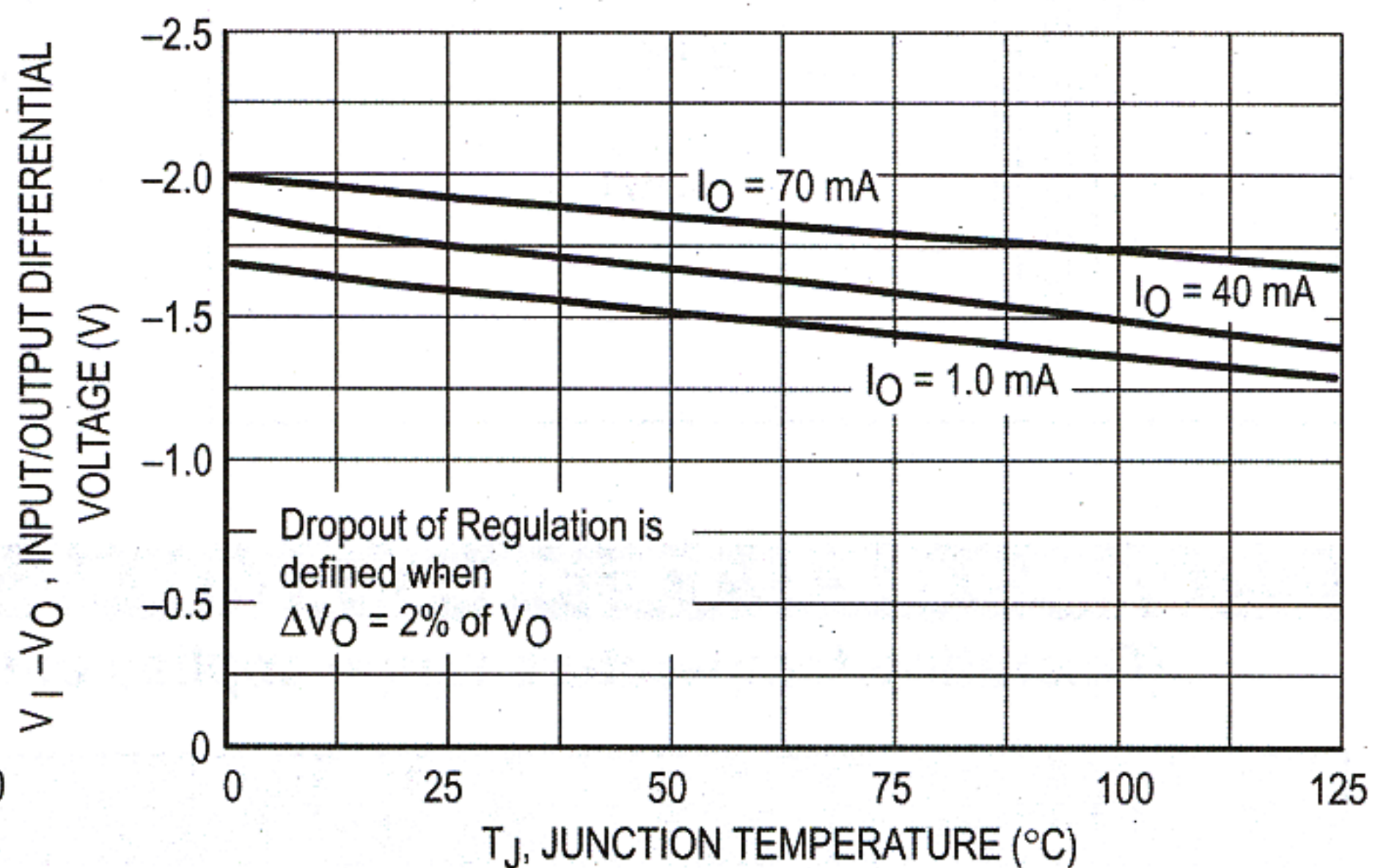




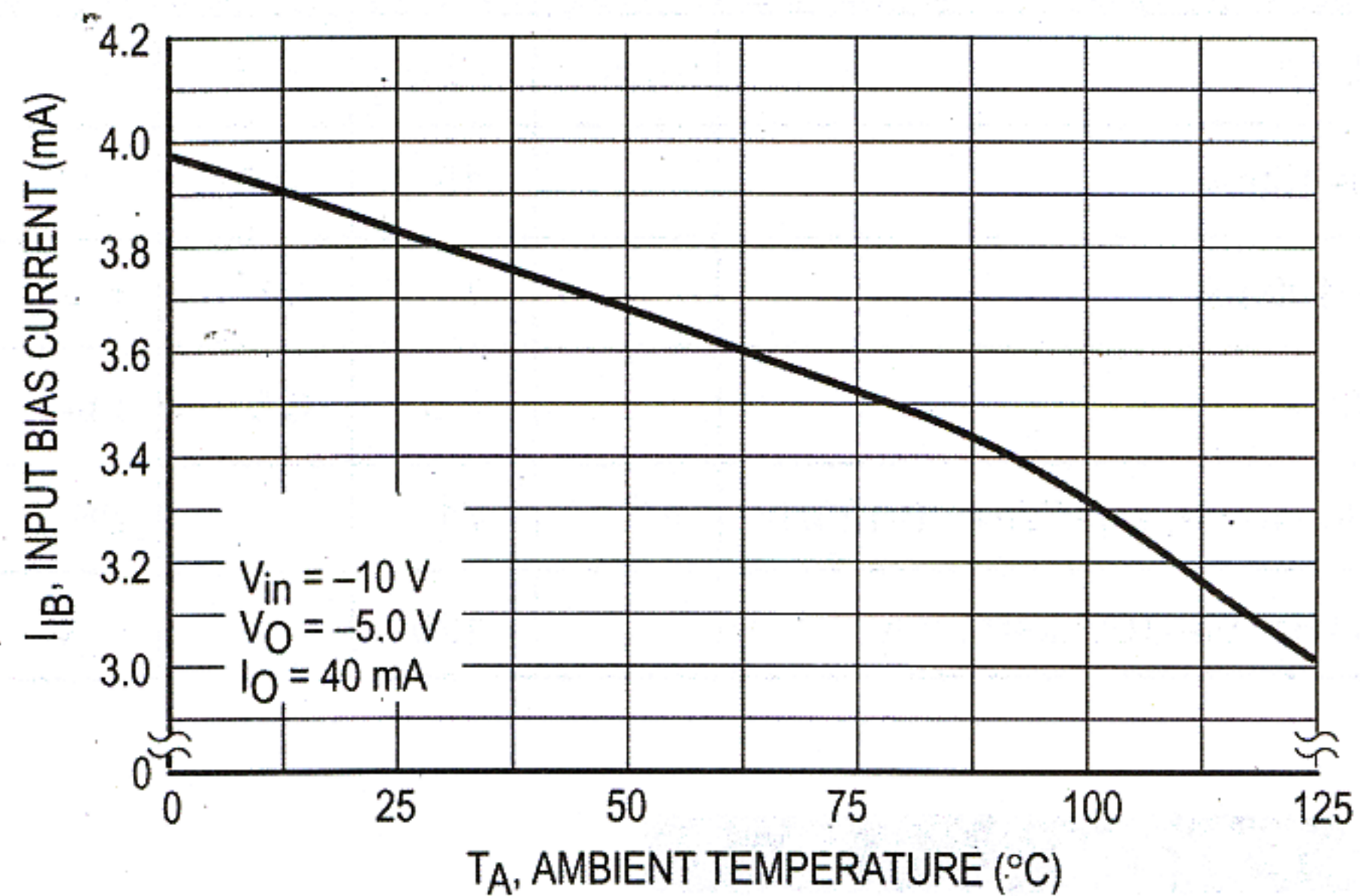
**Figure 3. Dropout Characteristics**



**Figure 4. Dropout Voltage versus Junction Temperature**



**Figure 5. Input Bias Current versus Ambient Temperature**



**Figure 6. Input Bias Current versus Input Voltage**

