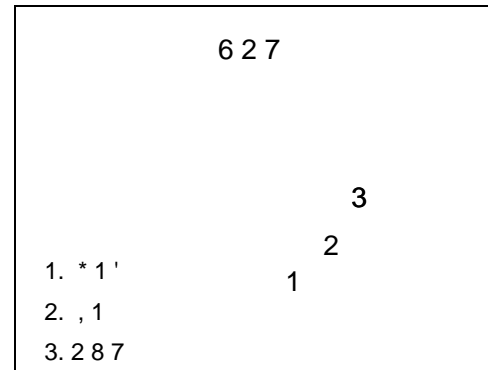


# 79L05

Three-terminal positive voltage regulator

## FEATURES

- Maximum Output current  
 $I_{OM}: 0.1A$
- Output voltage  
 $V_o: -5V$
- Continuous total dissipation  
 $P_D: 0.6W (T_a = 25^\circ C)$



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	-30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	208.3	$^\circ C/W$
Operating Junction Temperature Range	$T_{OPR}$	a	$^\circ C$
Storage Temperature Range	$T_{STG}$	-65~+150	$^\circ C$

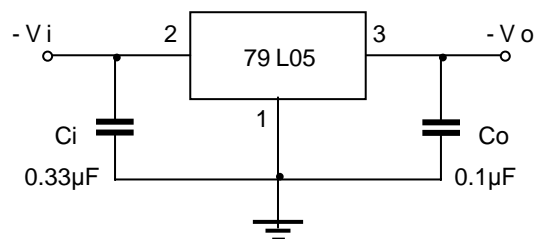
## ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

( $V_i = -10V, I_o = 40mA, C_i = 0.33 \mu F, C_o = 0.1 \mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	M L Q	T \ S	M D [	8 Q L W
Output Voltage	$V_o$	$25^\circ C$	-4.8	-5.0	-5.2	V
		$-7V \leq V_i \leq -20V, I_o = 1mA \sim 40mA$	-4.75	-5.0	-5.25	V
		$I_o = 1mA \sim 70mA$	-4.75	-5.0	-5.25	V
Load Regulation	$\Delta V_o$	$I_o = 1mA \sim 100mA$		20	60	mV
		$I_o = 1mA \sim 40mA$		10	30	mV
Line Regulation	$\Delta V_o$	$-7V \leq V_i \leq -20V$		15	150	mV
		$-8V \leq V_i \leq -20V$		12	100	mV
Quiescent Current	$I_q$				6	mA
Quiescent Current Change	$\Delta I_q$	$-8V \leq V_i \leq -20V$			1.5	mA
		$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	$V_N$	$10Hz \leq f \leq 100KHz$		40		V/ $V_o$
Ripple Rejection	RR	$-8V \leq V_i \leq -18V, f = 120Hz$	41	49		dB
Dropout Voltage	$V_d$			1.7		V

\* Pulse test.

## TYPICAL APPLICATION

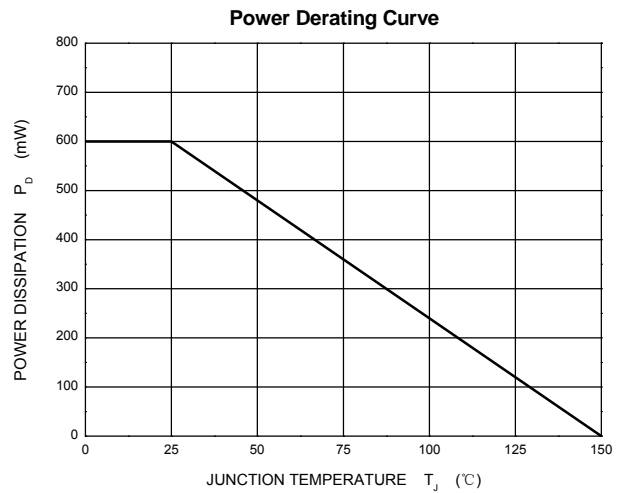
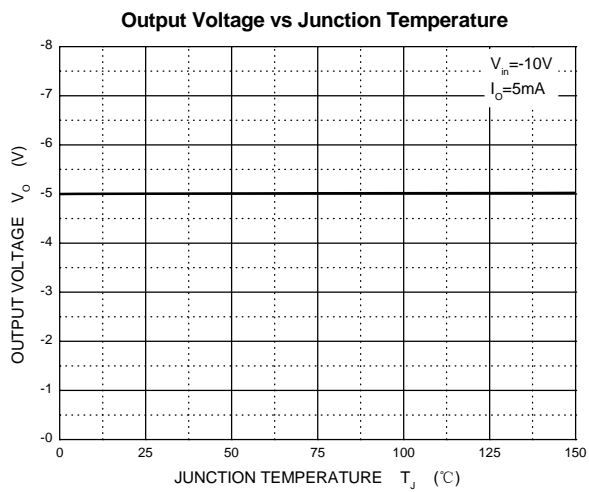
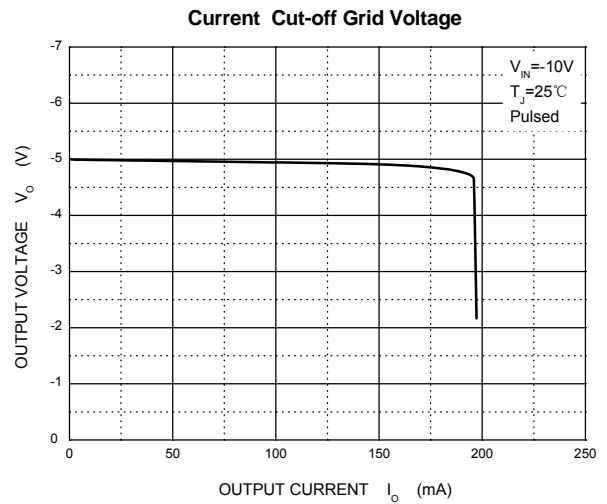
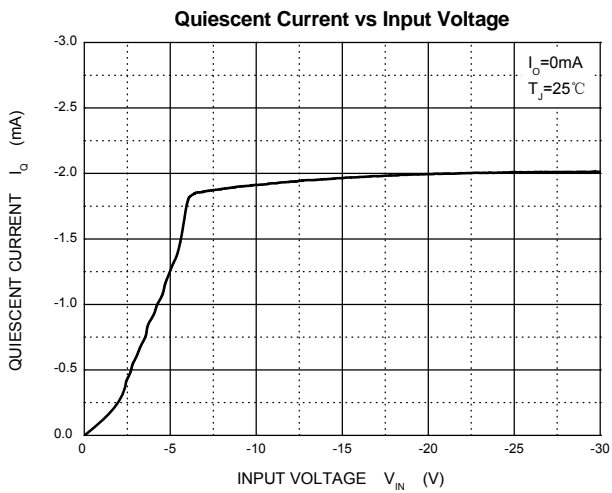
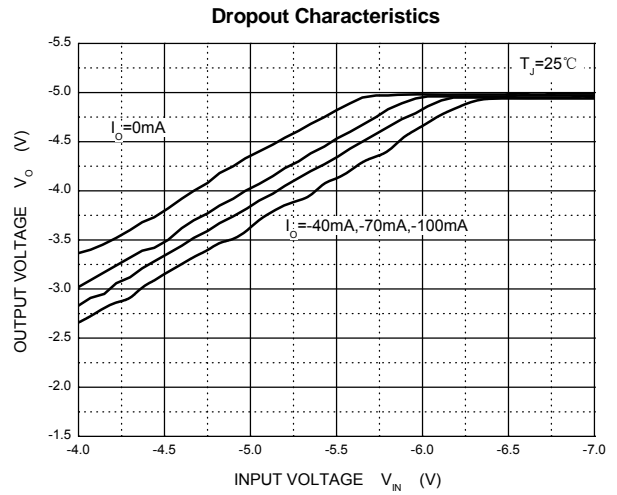
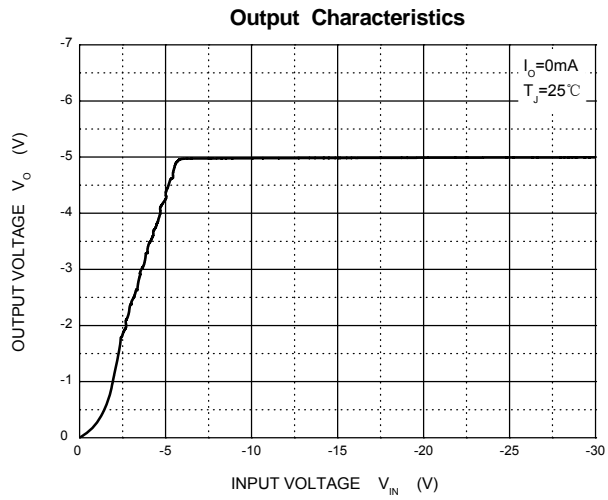


Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

# 79L05

Three-terminal positive voltage regulator

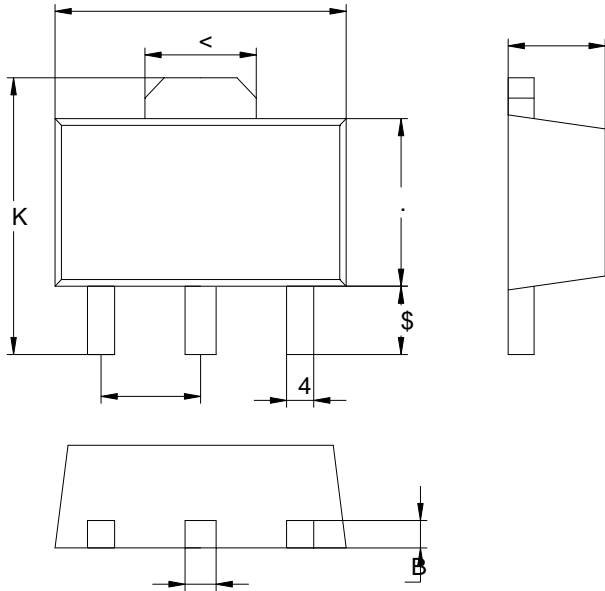
## Typical Characteristics



# 79L05

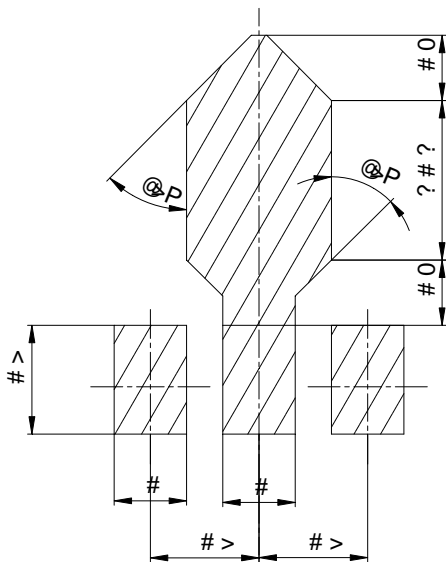
Three-terminal positive voltage regulator

6 27 3DFNDJH 2XWOLQH 'LPHQVLRQV



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6 27 6XJJHVWHG 3DG /D\RXW



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