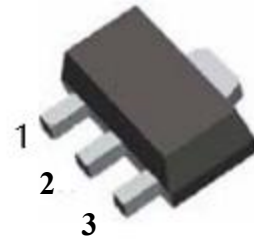


主要特点

- ◆ 输出电流 0.1A
- ◆ 输出电压 5V
- ◆ 过热保护、短路保护
- ◆ 输出晶体管 SOA 保护



SOT-89-3



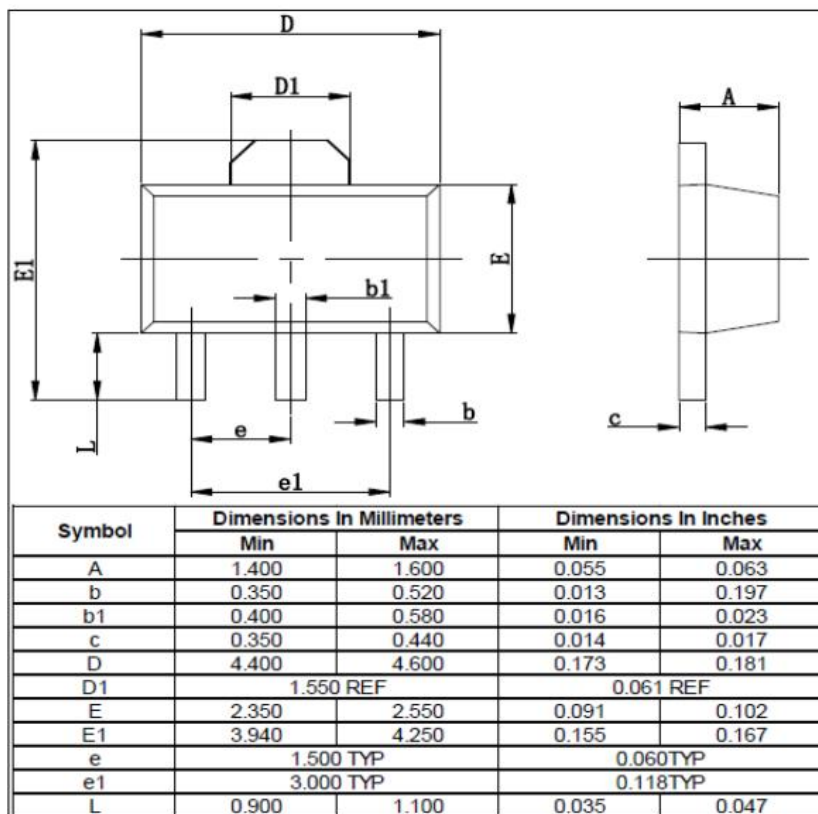
极限值

- VI--输入电压：30V
- TOPR--工作结温范围：0~150℃
- TSTG--储存温度范围：-55~150℃

1-OUTPUT

2-GND

3-INPUT



极限参数

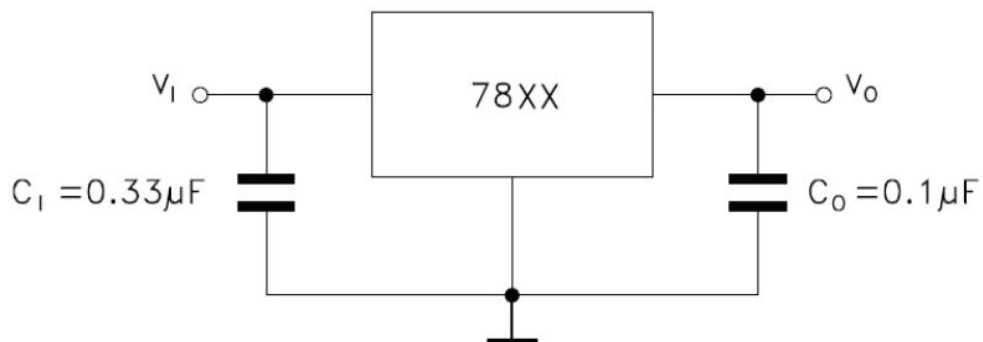
参数名称	符号	额定值	单位
输入电压	V_{IN}	30	V
最大输电流	I_{out}	100	mA
工作结温	T_j	0~+150	°C
贮存温度	T_{stg}	-55~+150	°C
功耗	P_d	1.5	W

电参数

参数符号	符 号 说 明	最小值	典型值	最大值	单 位	测 试 条 件
V_o	输出电压	4.8	5.0	5.2	V	$T_j=25^{\circ}\text{C}$
		4.75	5.0	5.25		$I_o=40\text{mA}$ $V_I=10\text{V}$
ΔV_o	电压调整率*		-0.15	0.15	V	$I_o=40\text{mA}$, $7.0\text{V} \leq V_I \leq 20\text{V}$
ΔV_o	负载调整率*		-0.06	0.06	V	$V_I=10\text{V}$, $1.0\text{mA} \leq I_o \leq 100\text{mA}$
I_q	静态电流			6	mA	$V_I=10\text{V}$ $I_o=40\text{mA}$

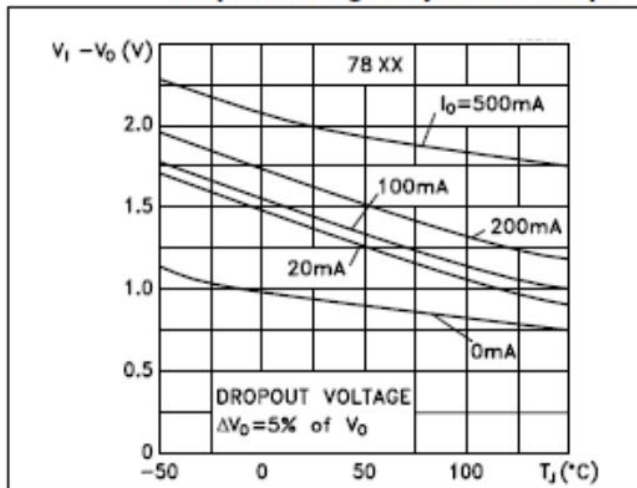
(参见测试电路, 除非另有说明, $0^{\circ}\text{C} \leq T_j \leq 125^{\circ}\text{C}$, $I_o=500\text{mA}$, $V_I=10\text{V}$, $C_I=0.33\mu\text{F}$, $C_o=0.1\mu\text{F}$)

测试原理图

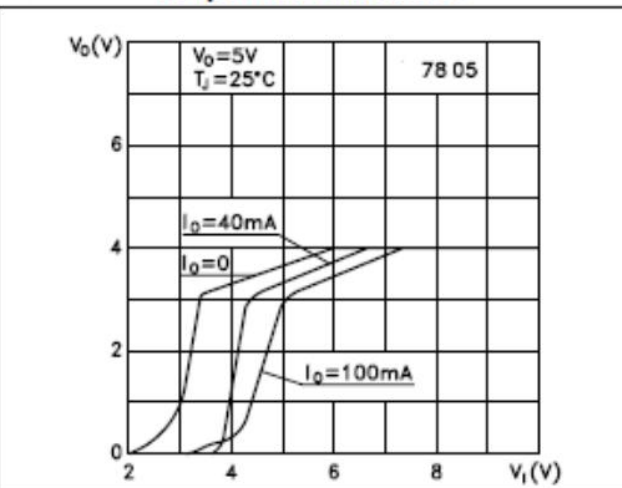


曲线图

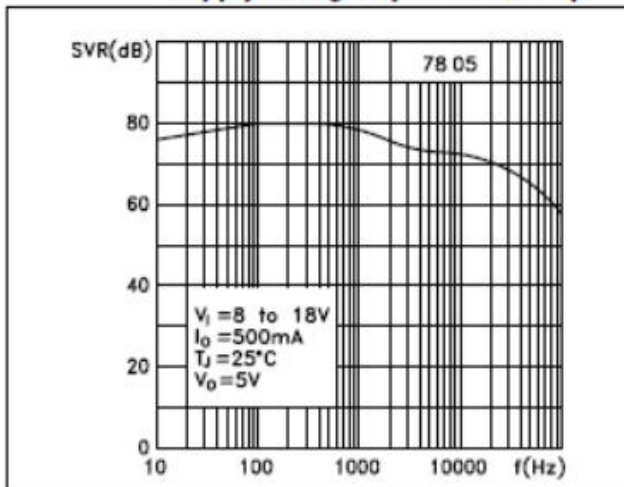
Dropout voltage vs junction temp.



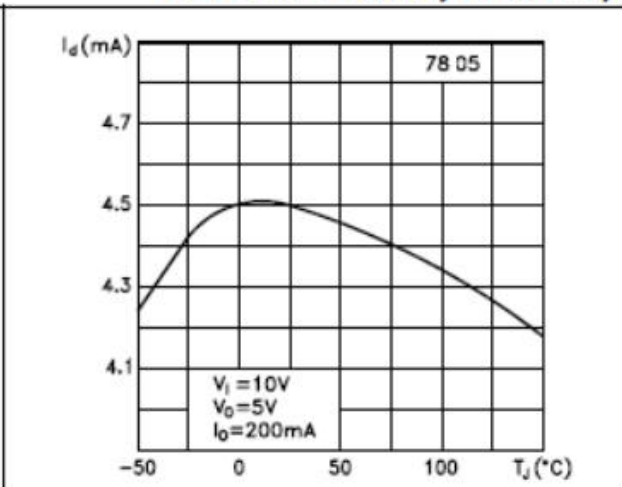
Dropout characteristics



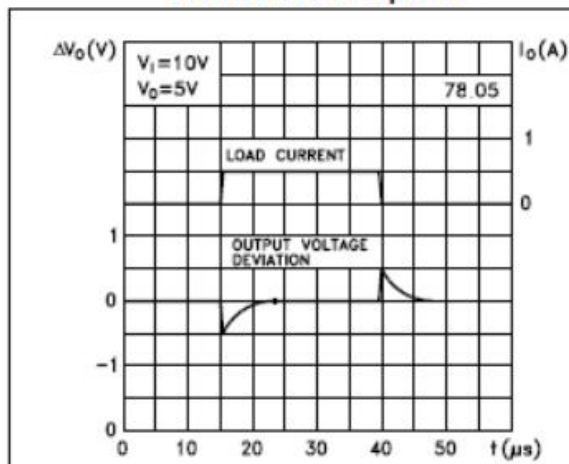
Supply voltage rejection vs freq.



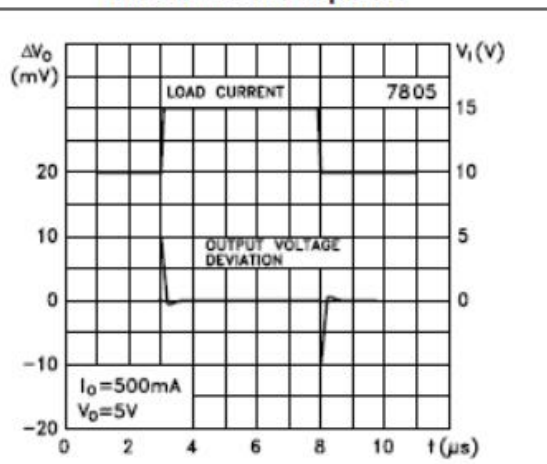
Quiescent current vs junction temp.



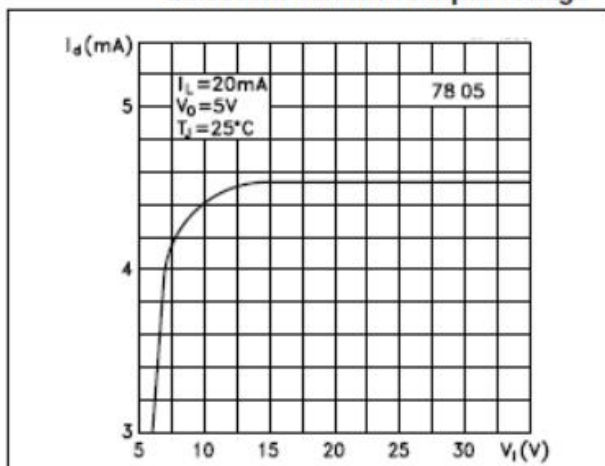
Load transient response



Line transient response



Quiescent current vs input voltage



Dropout voltage vs junction temp.

