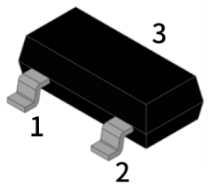
78L05LST1

Three-terminal positive voltage regulator

1. FEATURES

- Maximum Output current IO: 0.1 A
- Output voltage VO: 5 V
- Continuous total dissipation PD:0.25 W (Ta =25 ℃)



SOT23 (TO-236)

2. Mechanical Data

- SOT-23 Small Outline Plastic Package.
- Tin plated leads, solderable per J-STD-002 and JESD22-B102.
- Marking:

3. ORDERING INFORMATION

Device	Min Pack	Inner Box	Outer Carton	Reel
78L05LST1	3000	45000	180000	7 inch

4. MAXIMUM RATINGS (Ta = 25°C)

TParameter	Symbol	Value	Unit
Input Voltage	VI	30	V

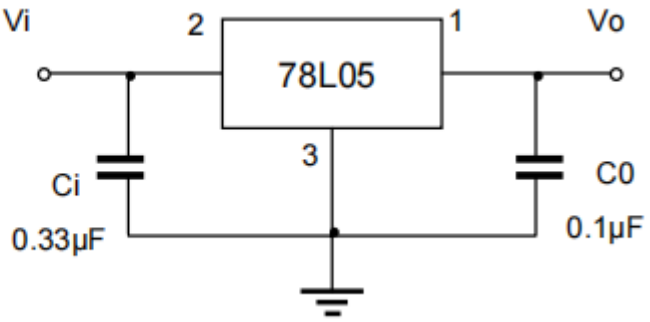
4. ERMAL HARACTERISTICS

Parameter	Symbol	Limit	Unit
Operating JunctionTemperature Range	TOPR	-40-125	℃
StorageTemperature Range	TSTG	-65-150	℃

5. ELECTRICAL CHARACTERISTICS (Vi=-10V, Io=40mA, Ci=0.33μF, Co=0.1μF, unless otherwise specified)

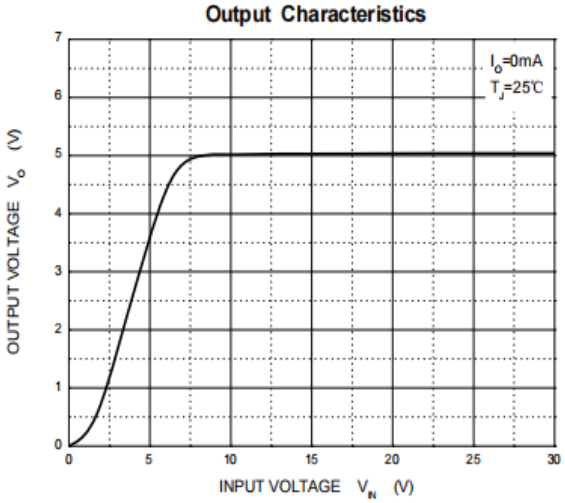
Parameter	Symbol	Condition	Min	TYP	Max	Unit
Output Voltage(T=25℃)	Vo		-4.8	-5	-5.2	V
Output Voltage(T=0~125℃)		-7V≤Vi≤-20V, Io=1mA~40mA	-4.75	-5	-5.25	V
		Io=1mA~70mA	-4.75	-5	-5.25	V
Load Regulation(T=25℃)	ΔVo	Io=1mA~100mA		20	60	mV
		Io=1mA~40mA		10	30	mV
Line regulation(T=25℃)	ΔVo	-7V≤Vil≤-20V		15	150	mV
		-8V≤Vi≤-20V		12	100	mV
Quiescent Current(T=25℃)	Iq			3.8	6	mA
Quiescent Current Change(T=0~125℃)	ΔIq	-8V≤Vi≤-20V			1.5	mA
		1mA≤IO≤40mA			0.1	mA
Output Noise Voltage(T=25℃)	VN	10Hz≤f≤100KH		40		uV
Ripple Rejection(T=0~125℃)	RR	-8V≤Vi≤-18V, f=120Hz	41	49		dB
Dropout Voltage(T=25℃)	Vd			1.7		V

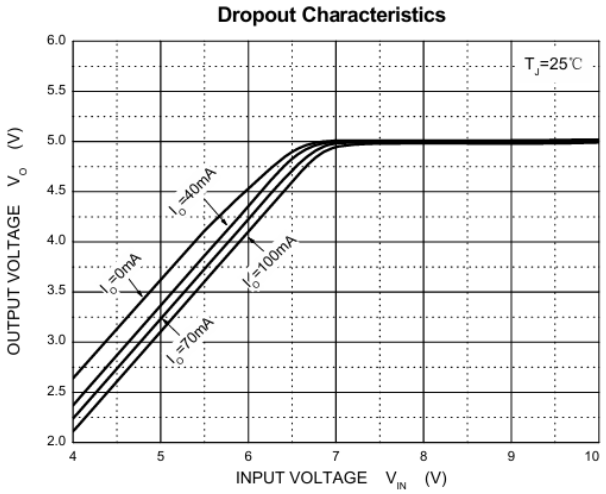
TYPICAL APPLICATION

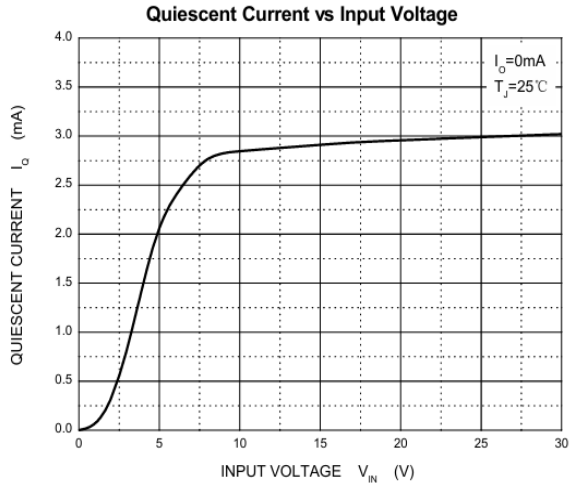


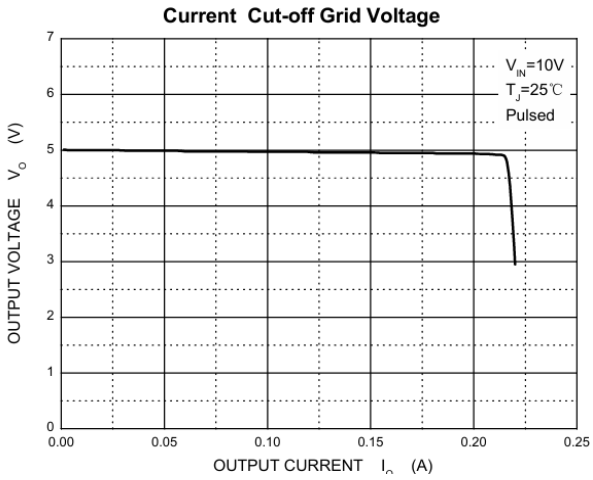
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

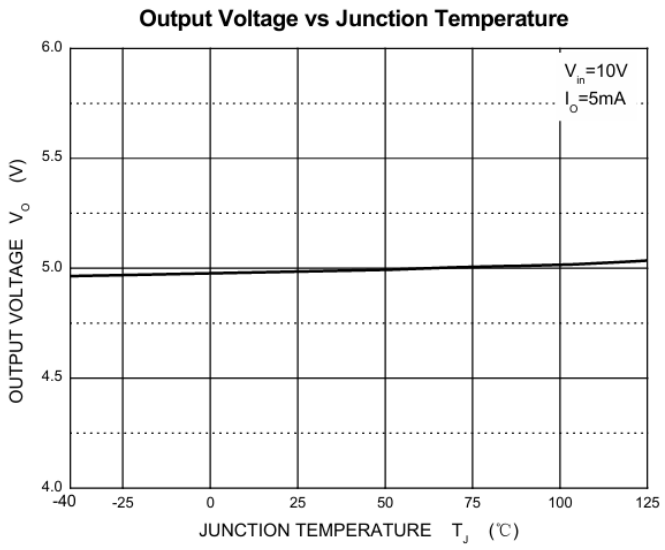
7.ELECTRICAL CHARACTERISTICS CURVES

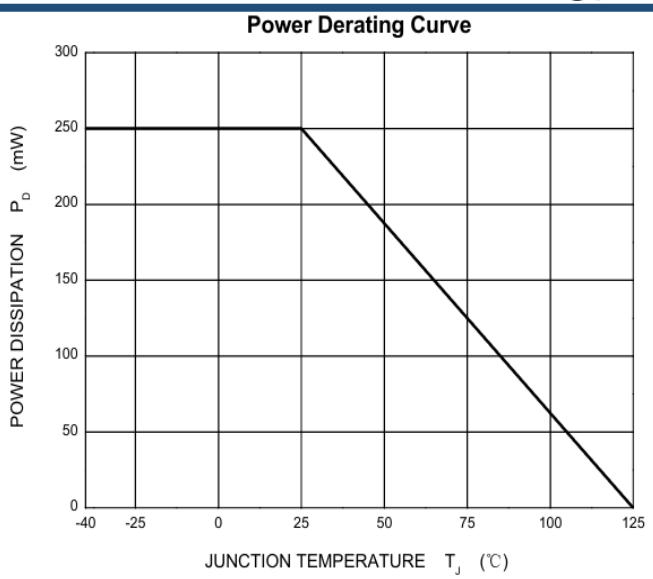




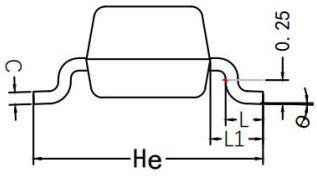


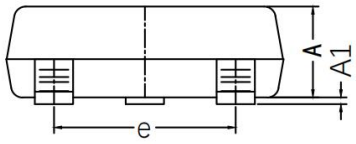


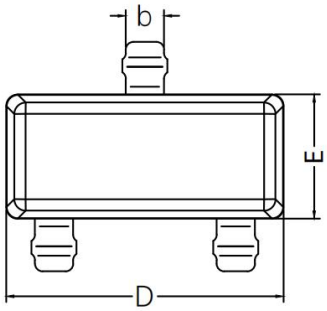




8. OUTLINE AND DIMENSIONS

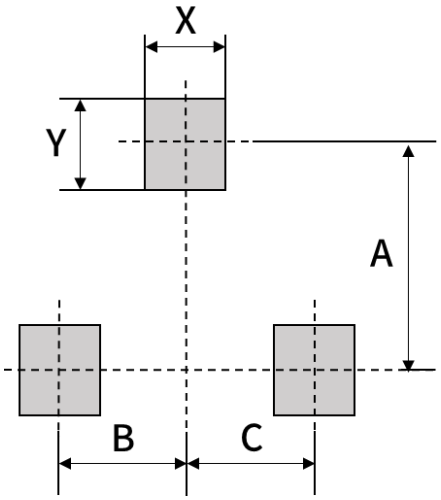






DIM	MIN	NOR	MAX
A	0.85	0.95	1.05
A1	0.01	0.06	0.10
b	0.36	0.44	0.52
c	0.09	0.13	0.18
D	2.80	2.90	3.10
E	1.20	1.30	1.40
e	1.78	1.90	2.04
L	0.30	0.40	0.50
L1	0.35	0.50	0.65
He	2.10	2.35	2.50
θ	0°	-	10°
All Dimensions in mm			

9. SUGGESTED PAD LAYOUT



SOT23		
DIM	mm	inch
A	2.00	0.079
B	0.95	0.037
C	0.95	0.037
X	0.80	0.031
Y	0.90	0.035

10. DISCLAIMER

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