

S78DL05

unit: mm

Low Drop output Voltage Regulator

Descriptions

• Three Terminal Positive Low Dropout Voltage Regulator

Features

- Low Standby Current Consumption (500 µA Typ.)
- Maximum Output Current (150 mA Max.)
- Less I/O voltage Difference (0.7V Max.)

4.40~4.80

Ordering Information

Type NO.	Marking	Package Code
S78DL05	S78DL05	TO-92

0.50 Max.

1.27 Typ.

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Outline Dimensions

40~4.80

13.50~14.50

1.27 Typ.

PIN Connections

1. Output

2. GND

3. Input

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Maximum ratings

Ta=25°C

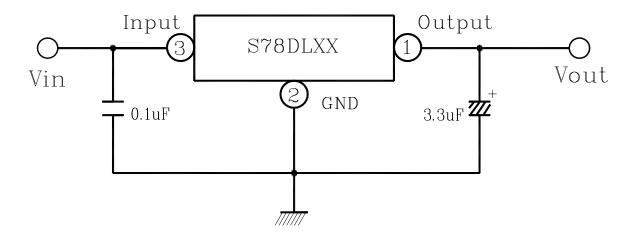
Characteristic	Symbol	Ratings	Unit
Operating Input voltage	V _{IN}	20	V
Power Dissipation	P_{D}	625	mW
Operating Temperature Range	T _{OPR}	-40~+85	°C
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C
Lead Temperature Time	T _{sol}	260 (10 Sec)	°C

Electrical Characteristics

(* $V_{IN}=10V$, $I_{OUT}=10 \text{ mA}$, $T_j=25^{\circ}C$)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output voltage	V _{OUT}	$V_{IN} = 5.35 V \sim 20 V$, $Ta = -40 \sim 85^{\circ} C$	4.8	5	5.2	V
Voltage Regulation	∆ V _{OUT} (1)	$V_{1N}=6V\sim16V$	-	10	30	mV
Load Regulation	∆ V _{OUT} (2)	I _{OUT} =10~100mA	-	12	50	mV
Quiescent Current	I _{cc}	$I_{OUT} \le 10 \text{mA}$, $V_{IN} = 6 \text{V} \sim 20 \text{V}$	-	0.5	1	mA
Dropout Voltage	V_{DROP}	I _{OUT} =50mA	-	0.3	0.5	V
		I _{OUT} =100mA	-	0.5	0.7	

■Test circuit



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Electrical Characteristic Curves

Fig. 1. Vin - Vout

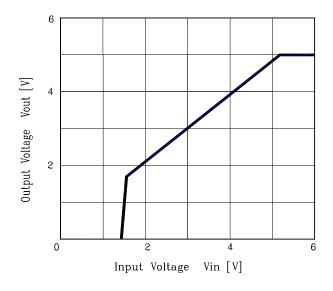


Fig. 2 | Vout - Vin | - I_C

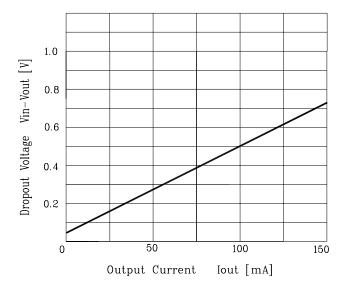


Fig. 3. Pd - Ta

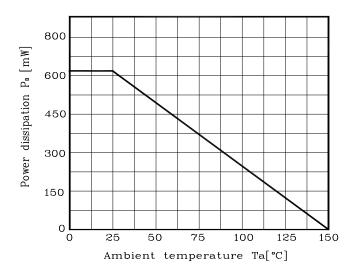
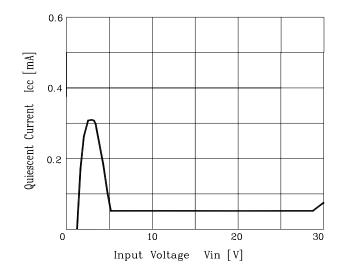


Fig. 4. Icc - Vout



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