



S78DL05F

Low Drop output Voltage Regulator

Descriptions

- Three Terminal Positive Low Dropout Voltage Regulator

Features

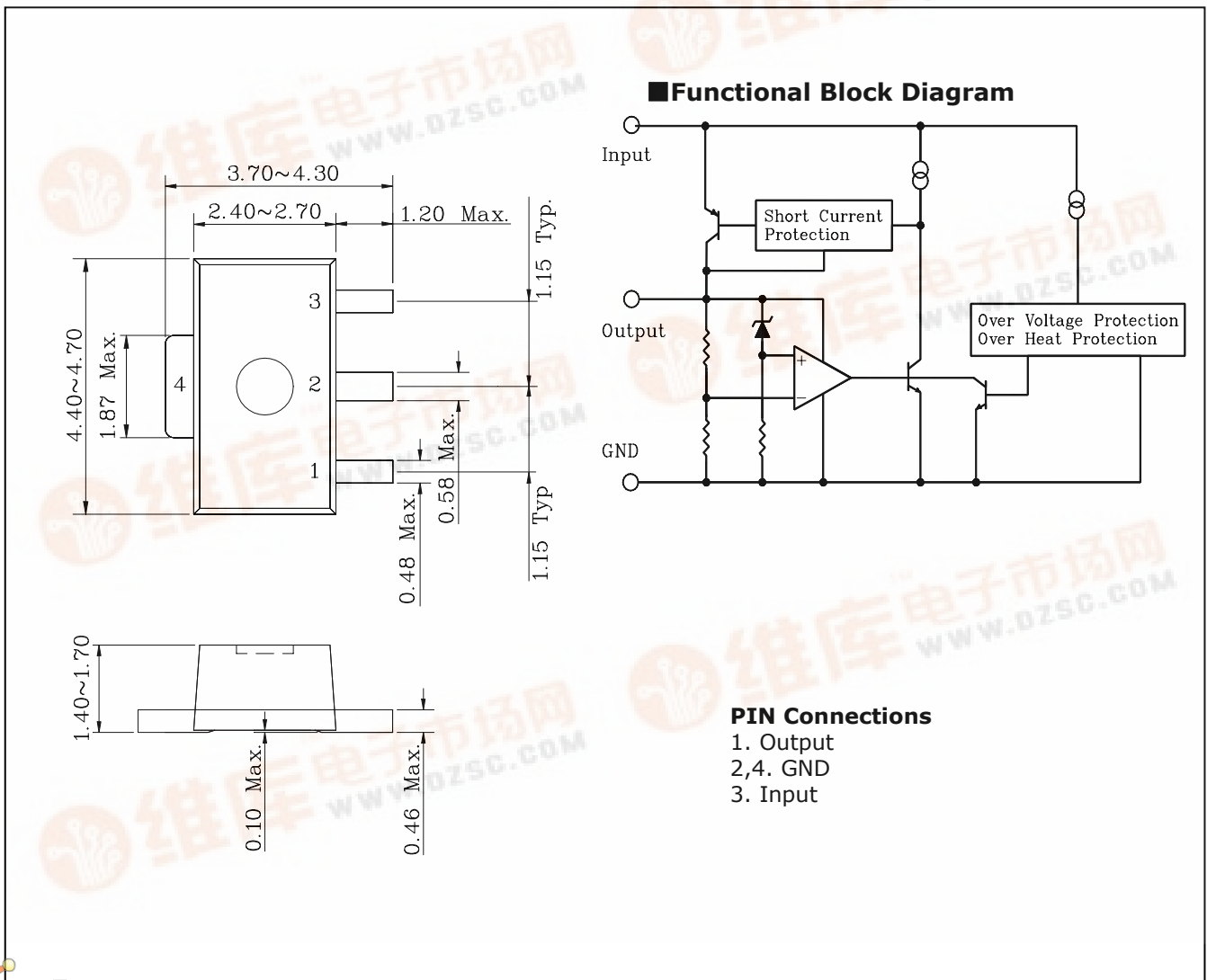
- Low Standby Current Consumption (500 μ A Typ.)
- Maximum Output Current (150 mA Max.)
- Low Dropout Voltage (0.7V Max.)

Ordering Information

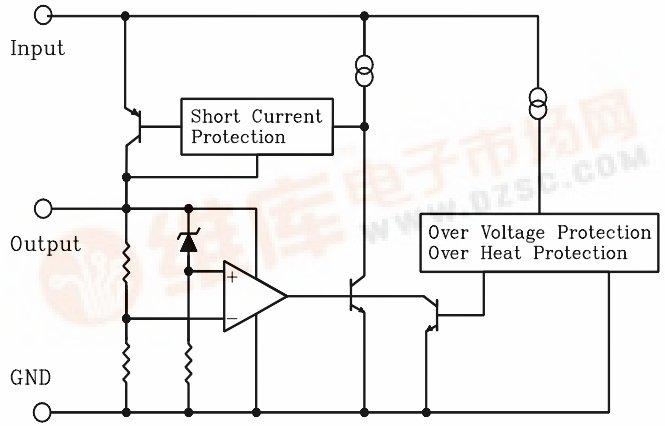
Type NO.	Marking	Package Code
S78DL05F	85□□	SOT-89

□□: Monthly Code, Weekly Code

Outline Dimensions (unit : mm)



Functional Block Diagram



PIN Connections

1. Output
- 2,4. GND
3. Input



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Maximum ratings

T_a=25°C

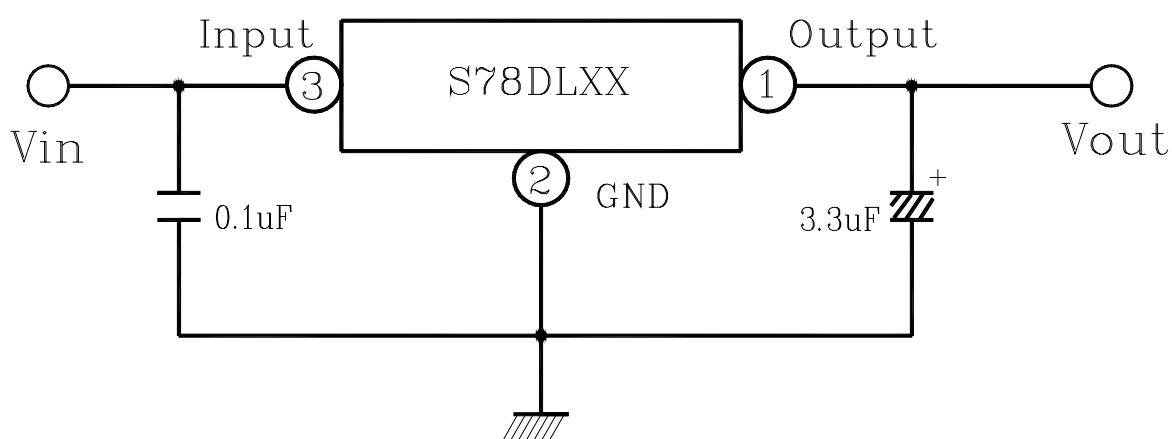
Characteristic	Symbol	Rating	Unit
Input voltage	V _{IN}	18	V
Power Dissipation	P _D	500	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

Electrical Characteristics

(※ V_{IN}=10V, I_{OUT}=10 mA, T_a=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output voltage	V _{OUT}	V _{IN} =6V~13V	4.8	5	5.2	V
Voltage Regulation	Δ V _{OUT} (1)	V _{IN} =6V~13V	-	10	30	mV
Load Regulation	Δ V _{OUT} (2)	I _{OUT} =10~100mA	-	12	50	mV
Quiescent Current	I _{QC}	I _{OUT} ≤ 10mA, V _{IN} =6V~13V	-	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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