

**Descriptions**

- Three Terminal Positive Low Dropout Voltage Regulator

**Features**

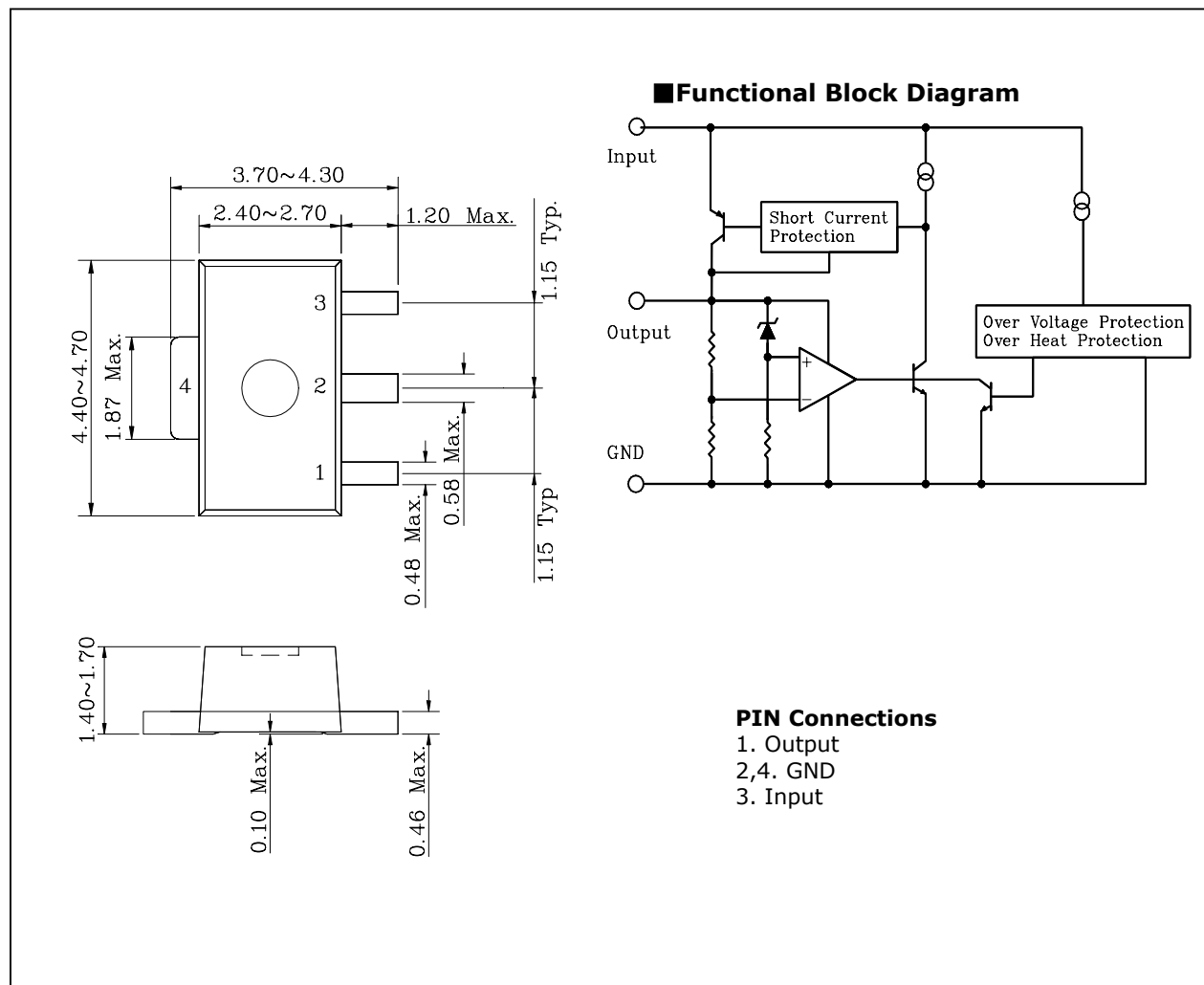
- Low Standby Current Consumption (500  $\mu$ A Typ.)
- Maximum Output Current (150 mA Max.)
- Low Dropout Voltage (0.7V Max.)

**Ordering Information**

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

□□: Monthly Code, Weekly Code

**Outline Dimensions (unit : mm )**



## Maximum ratings

T<sub>a</sub>=25°C

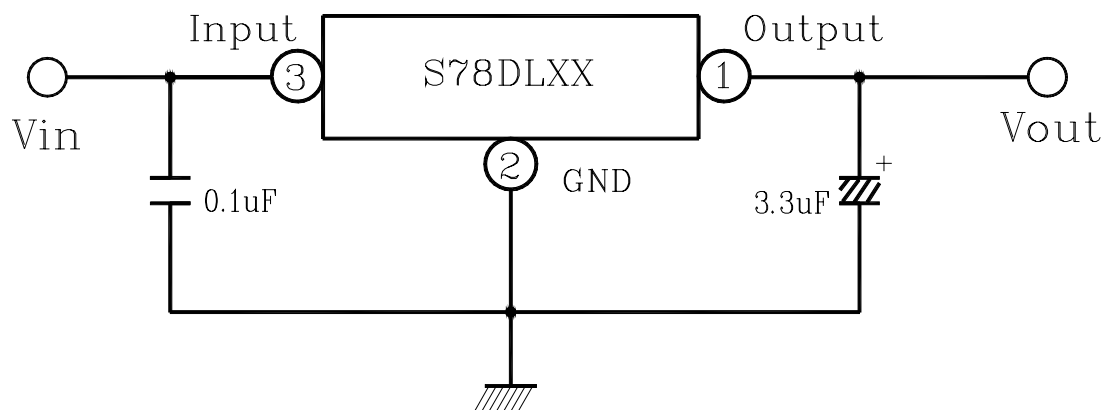
Characteristic	Symbol	Rating	Unit
Input voltage	V <sub>IN</sub>	18	V
Power Dissipation	P <sub>D</sub>	500	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C

## Electrical Characteristics

(\* V<sub>IN</sub>=10V, I<sub>OUT</sub>=10 mA, T<sub>a</sub>=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output voltage	V <sub>OUT</sub>	V <sub>IN</sub> =6V~13V	4.8	5	5.2	V
Voltage Regulation	Δ V <sub>OUT</sub> (1)	V <sub>IN</sub> =6V~13V	-	10	30	mV
Load Regulation	Δ V <sub>OUT</sub> (2)	I <sub>OUT</sub> =10~100mA	-	12	50	mV
Quiescent Current	I <sub>QC</sub>	I <sub>OUT</sub> ≤ 10mA, V <sub>IN</sub> =6V~13V	-	0.5	1	mA
Dropout Voltage	V <sub>DROP</sub>	I <sub>OUT</sub> =50mA	-	0.3	0.5	V
		I <sub>OUT</sub> =100mA	-	0.5	0.7	

## Test circuit



**The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).**

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