

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Working Voltage	V _{IN}	-0.3~26	V
Thermal Resistance	R _{θJA}	200	/W
Power Consumption	P _D	500	mW
Storage Temperature	T _{STG}	-50~+125	
Working Temperature	T _A	-40~+85	

Notes: If the device operating conditions over the maximum rating of the above-mentioned conditions, may cause permanent damage to the device. The above parameters is only part of the operating conditions the maximum, we do not recommend the device running outside the scope of this specification. If the device to work long hours under the condition of absolute maximum limit, its stability may be affected.

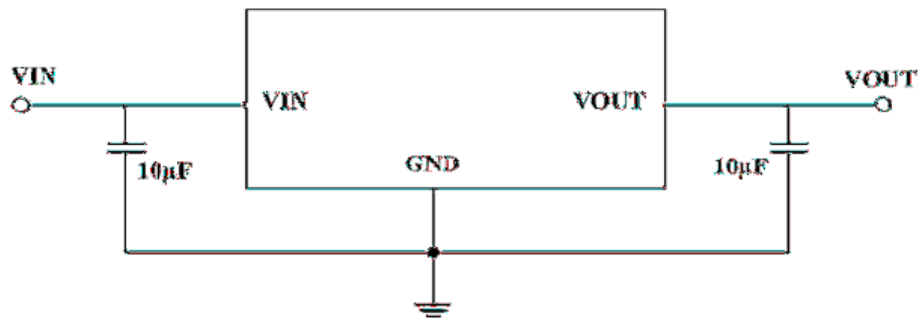
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
The Output Voltage	V _{OUT}	V _{IN} =5.0V,I _{OUT} =10mA	2.94	3.00	3.06	V
The Output Current	I _{OUT}	V _{IN} =5.0V		150		mA
Load Regulation	V _{OUT}	V _{IN} =5.0V 1mA ≤ I _{OUT} ≤ 100mA		25	60	mV
Low Dropout	V _{DIF}	I _{OUT} =10mA, V _{OUT} =2%			100	mV
Static Power	I _{SS}	V _{IN} =5.0V		1.5	3.0	μA
Line Regulation	V _{OUT} /V _{OUT} * V _{IN}	5.0 ≤ V _{IN} ≤ 24V I _{OUT} =10mA			0.2	%/V
The Input Voltage	V _{IN}				24	V
Temperature Coefficient	V _{OUT} / T _A *V _{OUT}	V _{IN} =5.0V,I _{OUT} =10mA -40 ≤ T _A ≤ 85		100		ppm/

Note: V_{DIF} is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at V_{IN}=5.0V with a fixed load.



/ Typical Application Circuit



1. 当输入电压 $V_{IN} = V_{OUT}$ 时，

2. 当输入电压 V_{IN} 和输出电压 V_{OUT} 不同时，

3. 当输入电压 V_{IN} 和输出电压 V_{OUT} 不同时，

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BRCO7530MT

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

1. 温度曲线应满足以下要求：
1. 温度应控制在 150℃~180℃ 之间，且应控制在 60℃ 以内。

Note: