

1.Features

- Output current in excess of 1A
- Output voltages of 5V
- Thermal overload protection
- Output transition SOA protection
- 2% output voltage tolerance
- Guaranteed in extended temperature range

2. Absolute maximum ratings

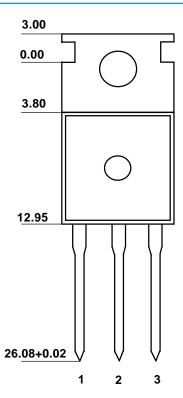
Table1: Maximum ratings(T_A=25 °C)

Parameter	Symbol	Rating	Unit
DC input voltage (V _o =5~18)	V _i	35	V
Thermal resistance junction-case	R _o JC	5	°C/W
Thermal resistance junction-ambient	R _o JA	65	°C/W
Operating juntion temperature range	T _o PR	0~125	°C
Storage temperature range	T _{stg}	-65~150	°C

3.Pin information & Package information

Table2: Pin information & Package information

Pin	Description		
1	Input		
2	GND		
3	Output		





4.Electrical characteristics

Table3: Electrical character	istics(0°C≤Tj≤′	125 °C,lo=500mA,Vi=11V,Ci=0.33uF	,C₀=0.1uF	")		
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Output voltage	v _o	T _i =25°C	4.8	5.0	5.2	V
		5.0mA≤I _o ≤1.0A, P _o ≤15W, 7.0V≤V _o ≤20V	4.75	5.0	5.25	٧
Line regulation	ΔV_{o}	T _j =25 °C,7.0V≤V _I ≤25V		4.0	100	mV
		T _j =25°C,9.0V≤V _j ≤13V		1.6	50	mV
Load regulation	ΔV_{o}	T _j =25 °C,5.0mA≤I _o ≤1.5A		9	100	mV
		T _j =25 °C,250mA≤I ₀ ≤750mA		4	50	mV
Quiescent	l _q	T _j =25°C		5.0	8	mA
Quiescent current change	ΔI _q	5.0mA≤I _o ≤1.0A		0.03	0.5	mA
		7.0V≤V _I ≤25V		0.3	1.3	mA
Output voltage drift	$\Delta V_{o} / \Delta T$	I _o =5mA		-0.8		mV/°C
Output noise voltage	V _n	T _A =25°C,10Hz≤f≤100KHz		42		uV
Supply voltage rejection	RR	f=120Hz,120V≤V ₁ ≤18V	62	73		dB
Dropout	V _d	I _o =1A,T _j =25°C		2		٧
Output resistance	R _o	f=1KHz	f=1KHz			mohm
Short circuit current	I _{sc}	V _i =35V,T _i =25°C	0.2			Α
Short circuit peak current	l _{px}	T _i =25°C	2.2			Α