

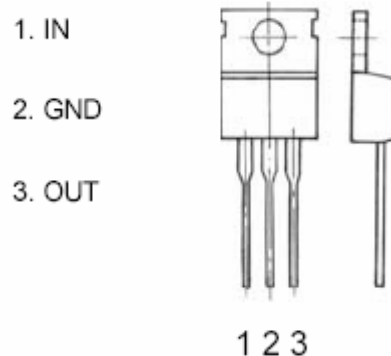
■ ■ Features:

- Output Current up to 1.5A.
- Output Voltages of 5 V.
- Output Transistor Safe Operating Area Protection.
- Thermal Overload Protection.
- Short Circuit Protection.

■ ■ Absolute Maximum Ratings

PARAMETER	SYMBOL	RATING	UNIT
Input Voltage	V _I	35	V
Thermal Resistance Junction-Cases	R _{θJC}	5	°C/W
Thermal Resistance Junction-Air	R _{θJA}	65	°C/W
Operating Temperature Range	T _J	0~125	°C
Storage Temperature Range	T _{STG}	-65~150	°C

TO-220



■ ■ Electrical Characteristics

(0°C ≤ T_J ≤ 125°C, I_O = 500mA, V_I = 10V, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Output Voltage	V _O	4.8	5.0	5.2	V	T _J = 25°C
		4.75	5	5.25	V	V _I : 7V~20V, I _O : 5mA~1A, P _O ≤ 15W
Load Regulation	ΔV _O		9	100	mV	T _J = 25°C, I _O : 5mA~1.5A
			4	50	mV	T _J = 25°C, I _O : 250mA~750mA
Line Regulation	ΔV _O		4	100	mV	T _J = 25°C, V _I : 7V~25V
			1.6	50	mV	T _J = 25°C, V _I : 8V~12V
Quiescent Current	I _Q		5	8	mA	T _J = 25°C
Quiescent Current Change	ΔI _Q		0.3	1.3	mA	V _I : 7V~25V
	ΔI _Q		0.03	0.5	mA	I _O : 5mA~1A
Output Noise Voltage	V _N		42		μV	f: 10Hz~100KHz
Ripple Rejection	RR	62	73		dB	T _J = 25°C, V _I : 8V~18V, f = 120Hz
Dropout Voltage	V _D		2		V	T _J = 25°C, I _O = 1A
Short Circuit Current	I _{sc}		230		mA	T _a = 25°C, V _I = 35V
Peak Current	I _{pk}		2.2		A	T _J = 25°C