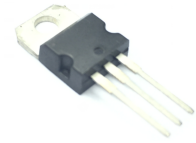




FEATURES

- Maximum Output current I_{OM} : 1.5 A
- Output voltage V_o : 5V
- Continuous total dissipation
 - P_D : 1.5 W ($T_a = 25^\circ C$)
 - 15 W ($T_c = 25^\circ C$)



TO-220

- 1.IN
- 2.GND
- 3.OUT

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	83.3	$^\circ C/W$
Thermal Resistance from Junction to Case	$R_{\theta JC}$	8.3	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	0~+150	$^\circ C$
Storage Temperature Range	T_{STG}	-55~+150	$^\circ C$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=10V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	$25^\circ C$	4.8	5.0	5.2	V
		$7V \leq V_i \leq 20V, I_o=5mA-1A, P \leq 15W$ $0-125^\circ C$	4.75	5.00	5.25	V
Load Regulation	ΔV_o	$I_o=5mA-1.5A$ $25^\circ C$		9	100	mV
		$I_o=250mA-750mA$ $25^\circ C$		4	50	mV
Line regulation	ΔV_o	$7V \leq V_i \leq 25V$ $25^\circ C$		4	100	mV
		$8V \leq V_i \leq 12V$ $25^\circ C$		1.6	50	mV
Quiescent Current	I_q	$25^\circ C$		5	8	mA
Quiescent Current Change	ΔI_q	$7V \leq V_i \leq 25V$ $0-125^\circ C$		0.3	1.3	mA
		$5mA \leq I_o \leq 1A$ $0-125^\circ C$		0.03	0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$ $25^\circ C$		42		μV
Output voltage drift	$\Delta V_o / \Delta T$	$I_o=5mA$ $0-125^\circ C$		-1.1		$mV/^\circ C$
Ripple Rejection	RR	$8V \leq V_i \leq 18V, f=120Hz$ $0-125^\circ C$	62	73		dB
Dropout Voltage	V_d	$I_o=1A$ $25^\circ C$		2		V
Output resistance	R_o	$f=1KHz$ $25^\circ C$		10		$m\Omega$
Short Circuit Current	I_{sc}	$25^\circ C$		230		mA
Peak Current	I_{pk}	$25^\circ C$		2.2		A

TYPICAL APPLICATION

