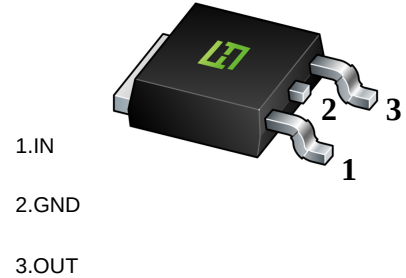


FEATURES

- Maximum output current
 I_{OM} : 0.5 A
- Output voltage
 V_O : 12 V
- Continuous total dissipation
 P_D : 1.25 W ($T_a = 25^\circ\text{C}$)

TO-252



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

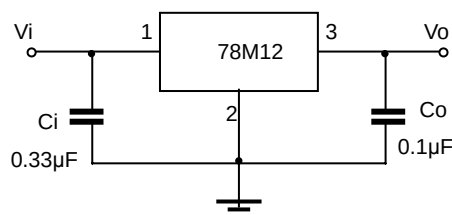
Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	80	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_{OPR}	-40~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($V_i=19\text{V}$, $I_o=350\text{mA}$, $C_i=0.33\mu\text{F}$, $C_o=0.1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25°C	11.5	12	12.5	V
		14.5≤Vi≤27V, Io=5mA-350mA	-25-125°C	11.4	12	12.6	V
Load Regulation	ΔVo	Io=5mA-500mA	25°C		25	240	mV
		Io=5mA-200mA	25°C		10	120	mV
Line Regulation	ΔVo	14.5V≤Vi≤30V, Io=200mA	25°C		10	100	mV
		16V≤Vi≤30V, Io=200mA	25°C		3	50	mV
Quiescent Current	Iq		25°C		4.6	6	mA
Quiescent Current Change	ΔIq	14.5V≤Vi≤30V, Io=200mA	-25-125°C			0.8	mA
	ΔIq	5mA≤Io≤350mA	-25-125°C			0.5	mA
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		75		μV/Vo
Ripple Rejection	RR	15≤Vi≤25V,f=120Hz,Io=300mA	-25-125°C	55	80		dB
Dropout Voltage	Vd	Io=350mA	25°C		2		V
Short Circuit Current	Isc	Vi=19V	25°C		240		mA
Peak Current	Ipk		25°C		0.7		A

* Pulse test.

TYPICAL APPLICATION



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics

