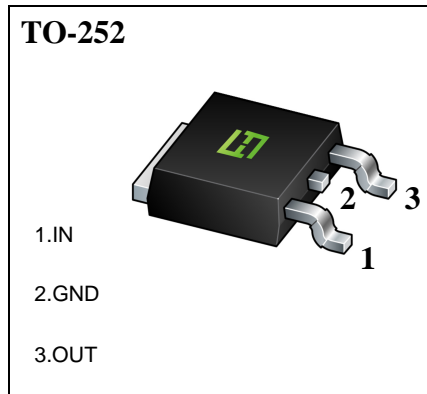


## FEATURES

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



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

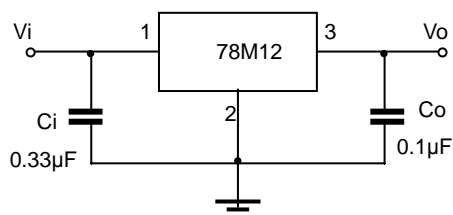
Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	80	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_{OPR}$	-40~+125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65~+150	$^\circ\text{C}$

## 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	$V_o$		25 $^\circ\text{C}$	11.5	12	12.5	V
		$14.5\text{V} \leq V_i \leq 27\text{V}$ , $I_o=5\text{mA}-350\text{mA}$	-25-125 $^\circ\text{C}$	11.4	12	12.6	V
Load Regulation	$\Delta V_o$	$I_o=5\text{mA}-500\text{mA}$	25 $^\circ\text{C}$		25	240	mV
		$I_o=5\text{mA}-200\text{mA}$	25 $^\circ\text{C}$		10	120	mV
Line Regulation	$\Delta V_o$	$14.5\text{V} \leq V_i \leq 30\text{V}$ , $I_o=200\text{mA}$	25 $^\circ\text{C}$		10	100	mV
		$16\text{V} \leq V_i \leq 30\text{V}$ , $I_o=200\text{mA}$	25 $^\circ\text{C}$		3	50	mV
Quiescent Current	$I_q$		25 $^\circ\text{C}$		4.6	6	mA
Quiescent Current Change	$\Delta I_q$	$14.5\text{V} \leq V_i \leq 30\text{V}$ , $I_o=200\text{mA}$	-25-125 $^\circ\text{C}$			0.8	mA
	$\Delta I_q$	$5\text{mA} \leq I_o \leq 350\text{mA}$	-25-125 $^\circ\text{C}$			0.5	mA
Output Noise Voltage	$V_N$	$10\text{Hz} \leq f \leq 100\text{KHz}$	25 $^\circ\text{C}$		75		$\mu\text{V}/V_o$
Ripple Rejection	RR	$15 \leq V_i \leq 25\text{V}$ , $f=120\text{Hz}$ , $I_o=300\text{mA}$	-25-125 $^\circ\text{C}$	55	80		dB
Dropout Voltage	$V_d$	$I_o=350\text{mA}$	25 $^\circ\text{C}$		2		V
Short Circuit Current	$I_{sc}$	$V_i=19\text{V}$	25 $^\circ\text{C}$		240		mA
Peak Current	$I_{pk}$		25 $^\circ\text{C}$		0.7		A

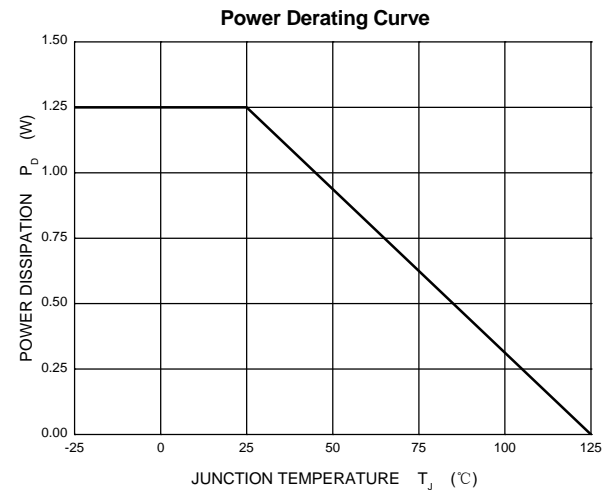
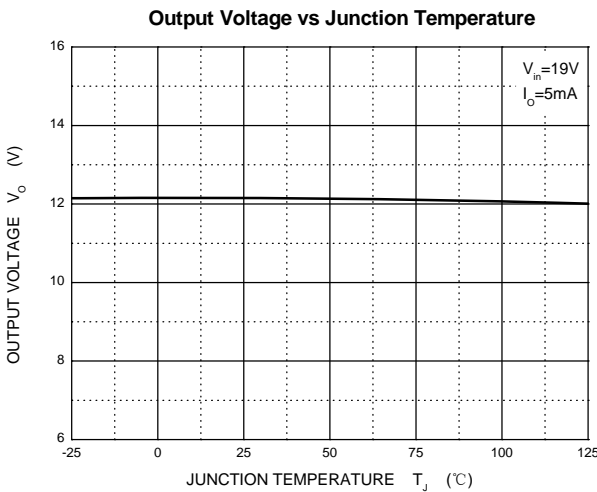
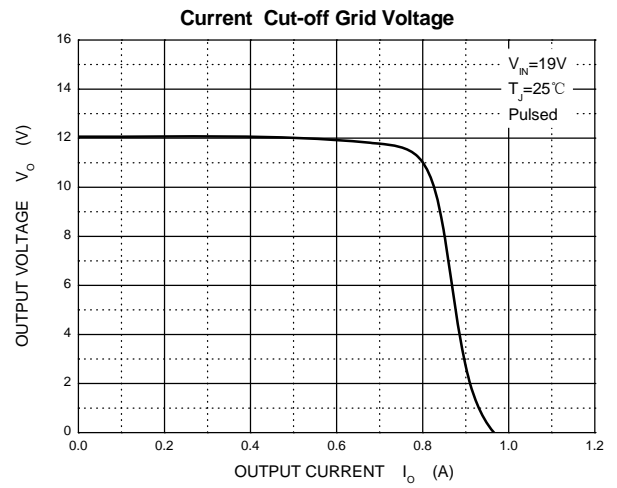
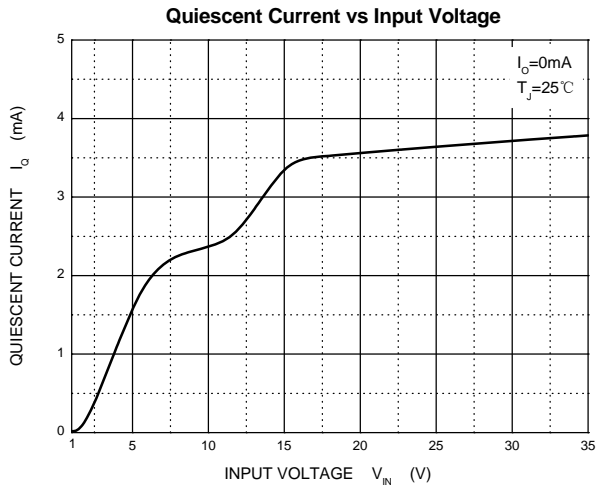
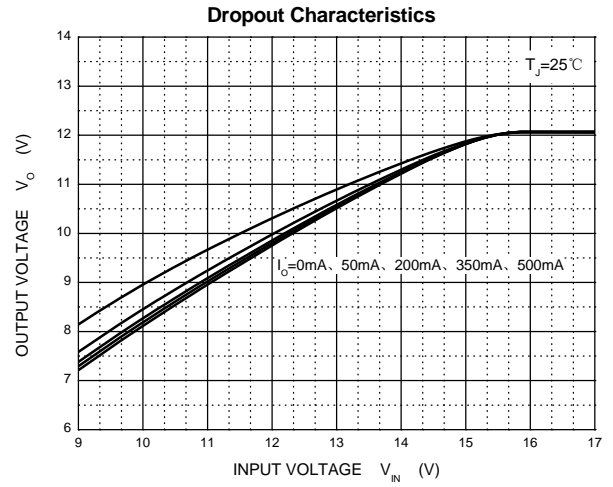
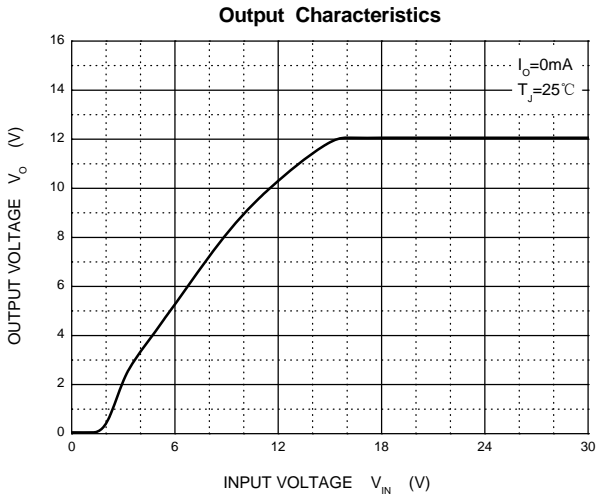
\* Pulse test.

## 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



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