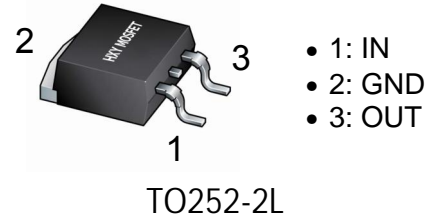




FEATURES

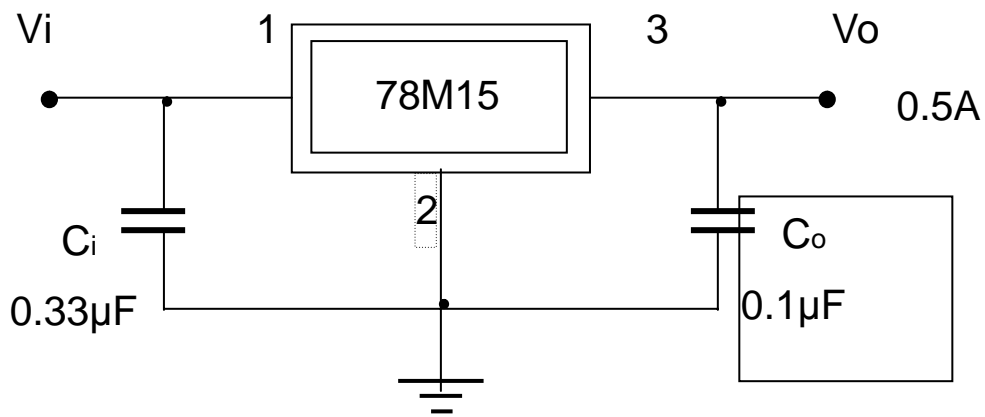
- Maximum Output current I_{OM} : 0.8A
- Output voltage V_O : 15V
- Continuous total dissipation
 P_D : 1.25 W ($T_a = 25\text{ }^\circ\text{C}$)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
78M15	TO252-2L	78M15	2500

Typical Application Circuit





Absolute Maximum Ratings

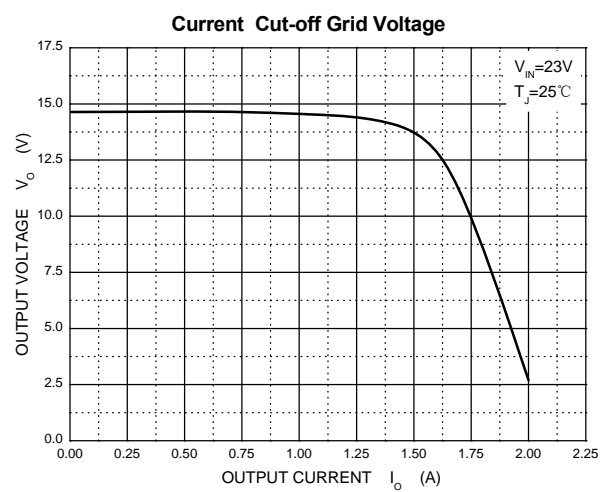
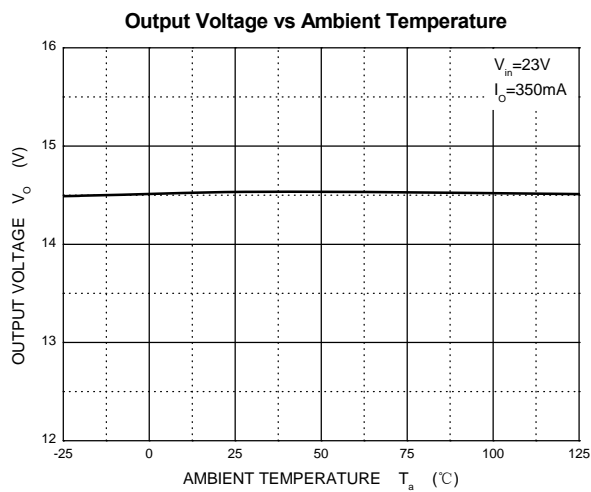
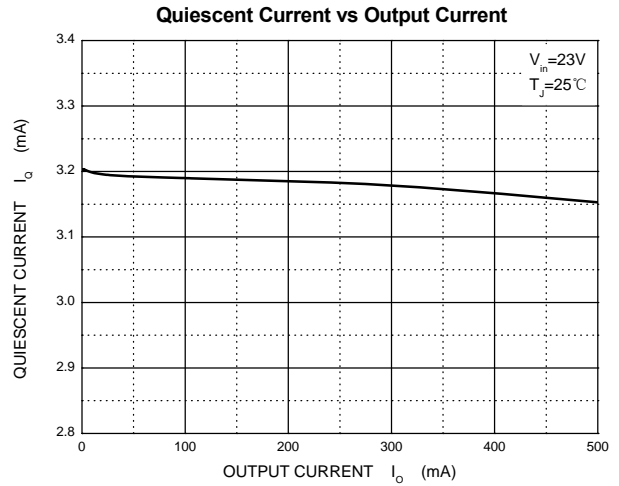
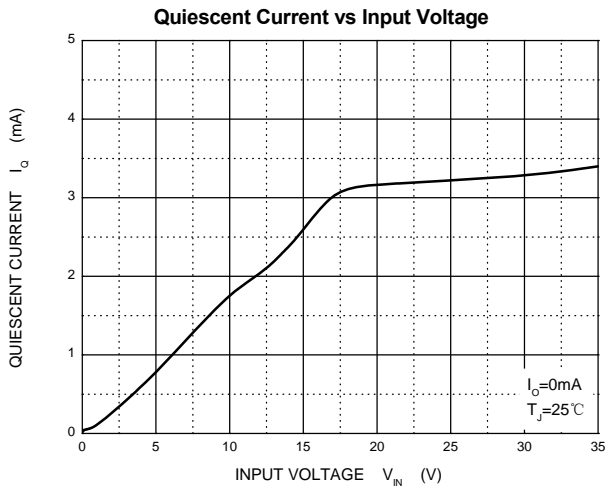
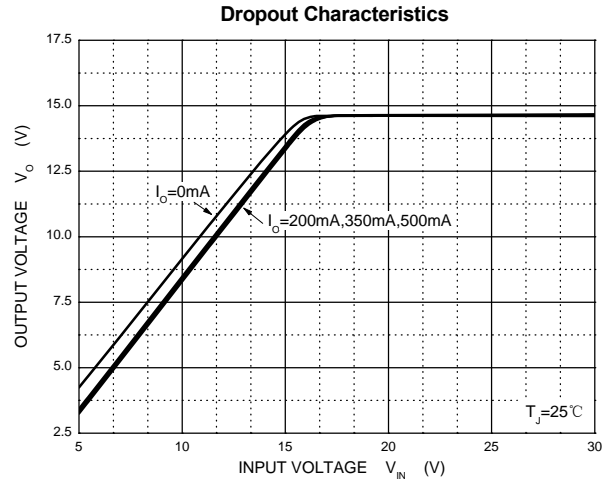
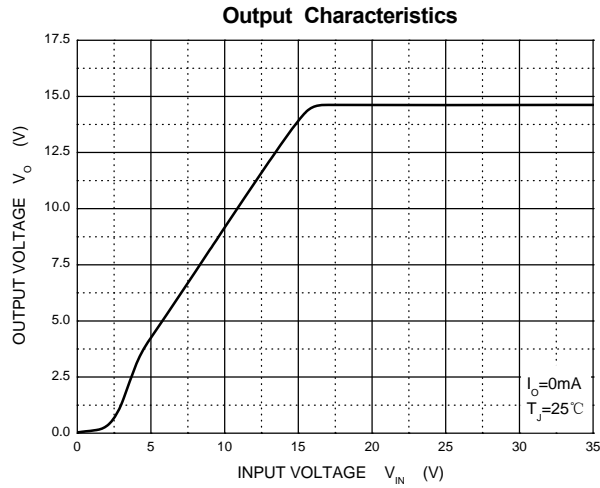
Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0-+125	°C
Storage Temperature Range	T_{STG}	-65-+150	°C

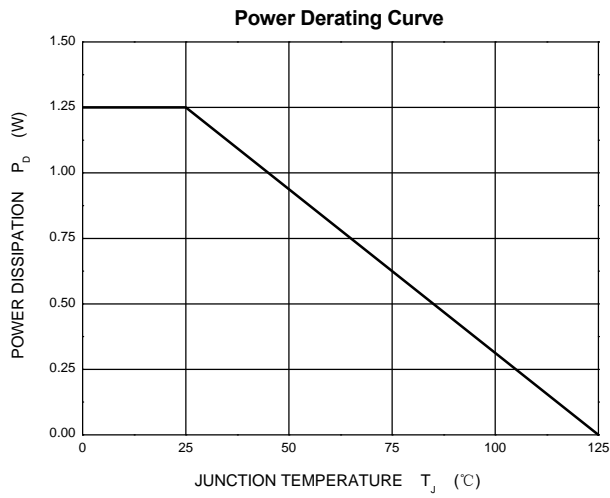
Electrical Characteristics

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V_o	$V_i=23V, I_o=350mA$	25°C	14.4	15	15.6	V
		$17.5V \leq V_i \leq 30V, I_o=5mA \sim 350mA$ $P_o \leq 15W$	0-125°C	14.25	15	15.75	V
Load Regulation	ΔV_o	$I_o=5mA \sim 500mA$	25°C			300	mV
		$I_o=5mA \sim 200mA$	25°C			150	mV
Line Regulation	ΔV_o	$17.5V \leq V_i \leq 30V, I_o=200mA$	25°C			100	mV
		$20V \leq V_i \leq 26V, I_o=200mA$	25°C			50	mV
Quiescent Current	I_q	$V_i=23V, I_o=350mA$	25°C			6	mA
Quiescent Current Change	ΔI_q	$17.5V \leq V_i \leq 30V, I_o=200mA$	0-125°C			0.8	mA
	ΔI_q	$V_i=23V, I_o=5mA \sim 350mA$	0-125°C			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	25°C		90	μV	
Ripple Rejection	RR	$18.5V \leq V_i \leq 28.5V, f=120Hz, I_o=300mA$	0-125°C	54			dB
Dropout Voltage	V_d		25°C		2		V



Typical Characteristics







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