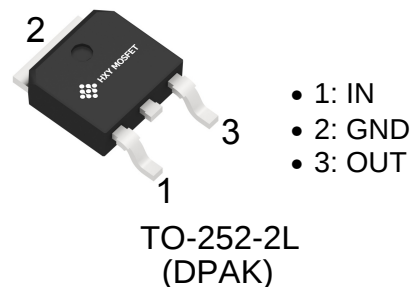




Features

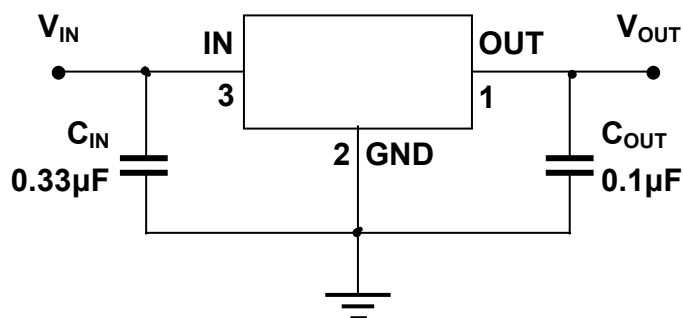
- Maximum Output current I_{OM} : 0.8A
- Output voltage V_O : 15V
- Continuous total dissipation
 P_D : 1.25 W ($T_a = 25^\circ\text{C}$)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
L78M15ABDT-TR	TO-252-2L (DPAK)	78M15	2500

Typical Application Circuit



Absolute Maximum Ratings

Characteristics	Symbol	Value	Unit
Maximum input voltage	V_{IN}	35	V
Maximum junction temperature	$T_{J\text{ Max}}$	150	$^\circ\text{C}$
Storage temperature	T_{stg}	- 65 ~ 150	$^\circ\text{C}$
Soldering temperature & time	T_{solder}	260 $^\circ\text{C}$, 10s	-



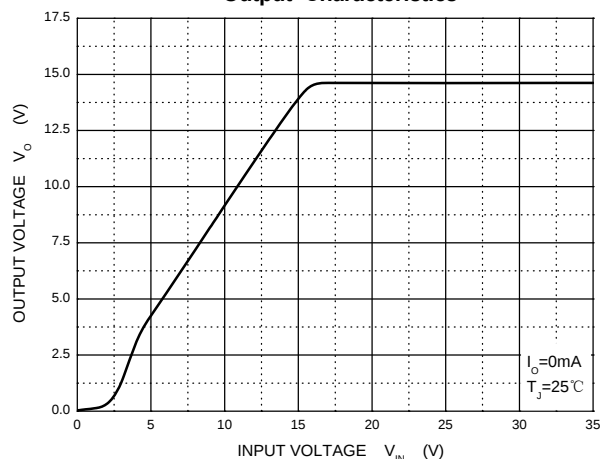
Electrical Characteristics

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo	$V_i=23V, I_o=350mA$	25°C	14.4	15	15.6	V
		$17.5 \leq V_i \leq 30V, I_o=5mA \sim 350mA$ $P_o \leq 15W$	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	$18.5 \leq V_i \leq 28.5V, f=120Hz, I_o=300mA$	0-125°C	54			dB
Dropout Voltage	Vd		25°C		2		V

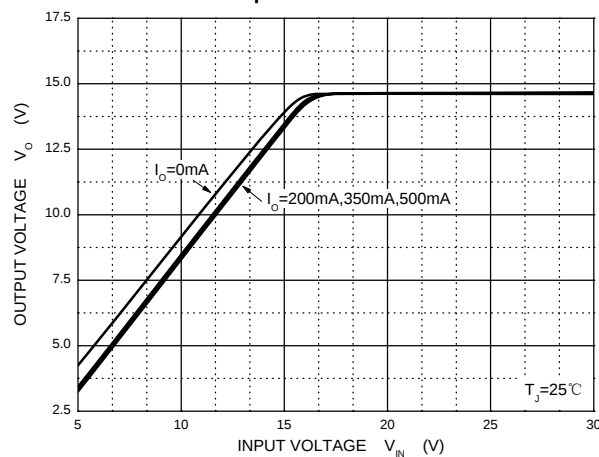


Typical Characteristics

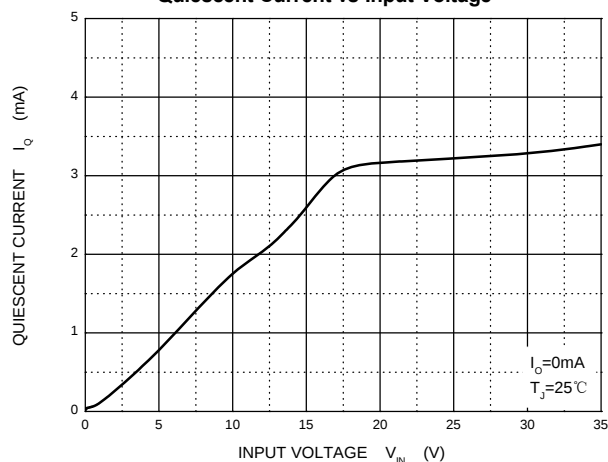
Output Characteristics



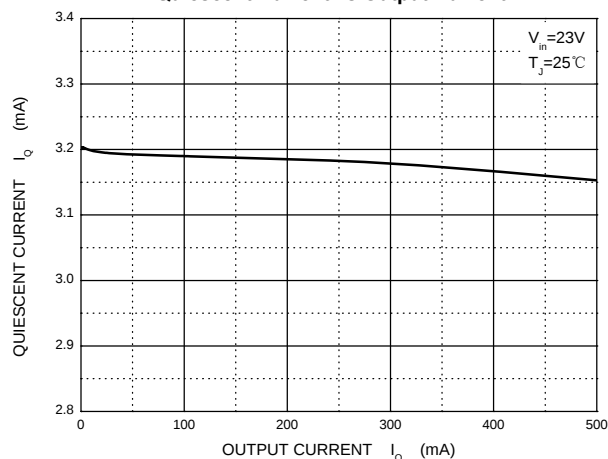
Dropout Characteristics



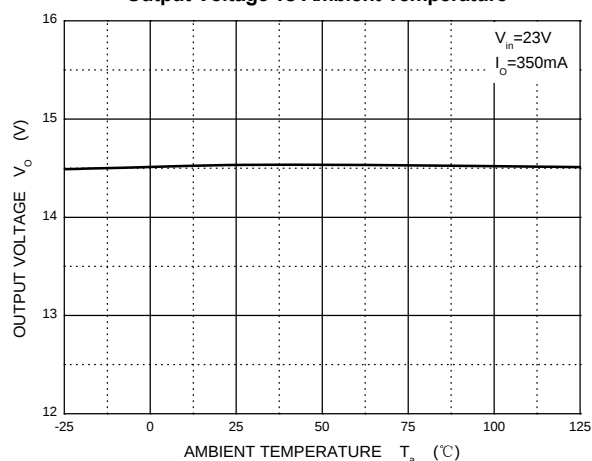
Quiescent Current vs Input Voltage



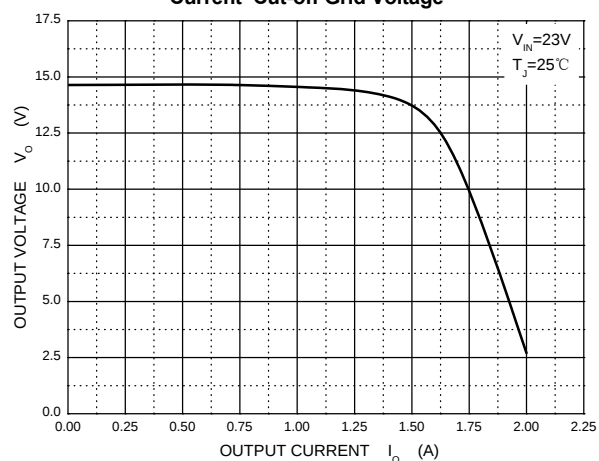
Quiescent Current vs Output Current

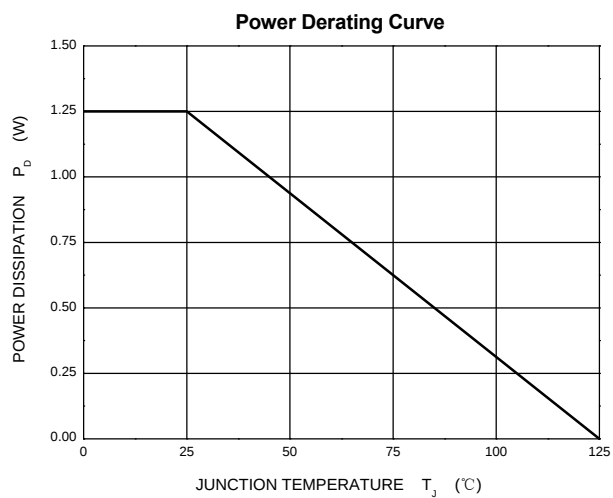


Output Voltage vs Ambient Temperature



Current Cut-off Grid Voltage







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