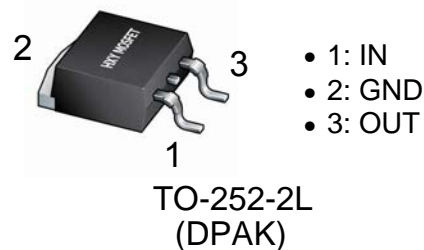




Features

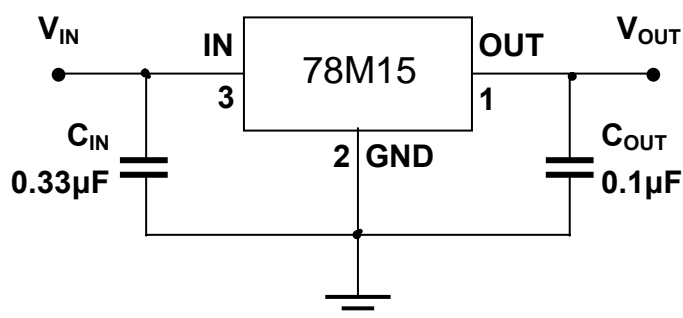
- Maximum Output current I_{OM} : 0.8A
- Output voltage V_O : 15V
- Continuous total dissipation
 P_D : 1.25 W ($T_a = 25^\circ\text{C}$)



Package Marking and Ordering Information

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

Typical Application Circuit



Absolute Maximum Ratings

CHARACTERISTIC	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	-

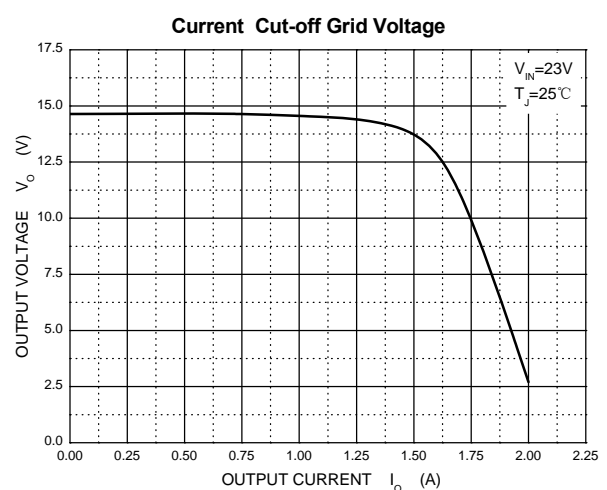
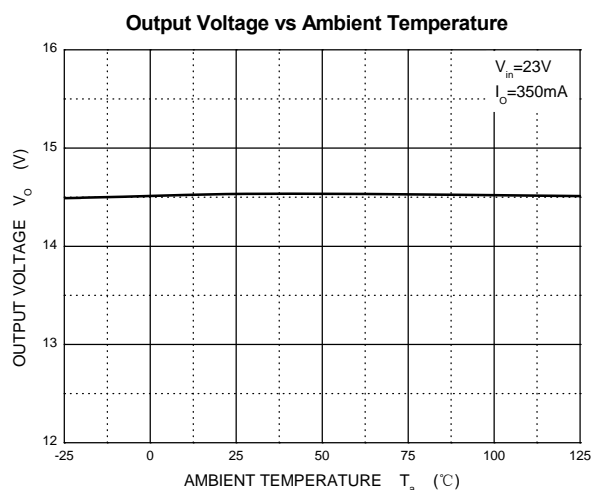
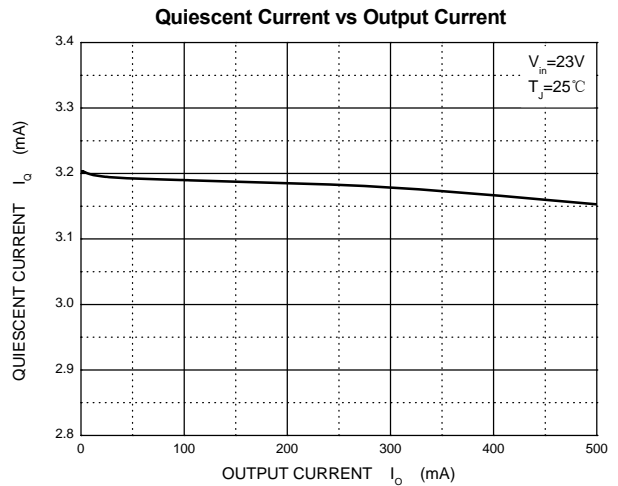
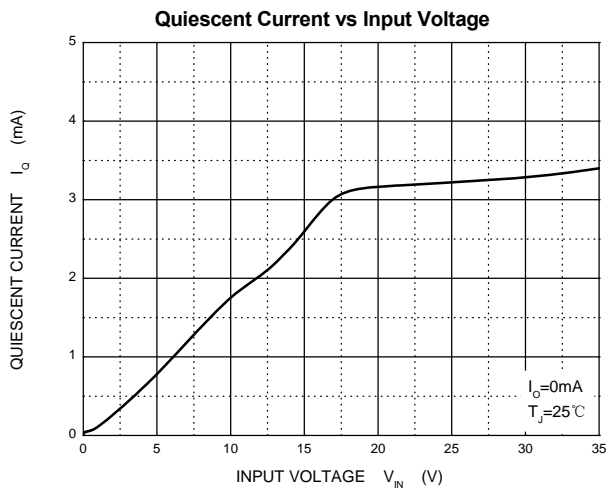
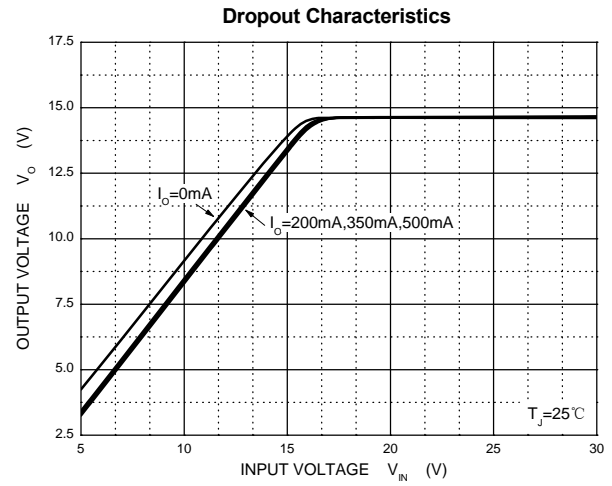
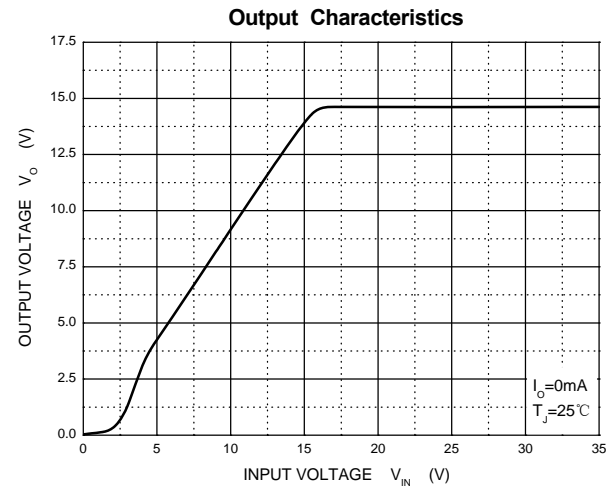


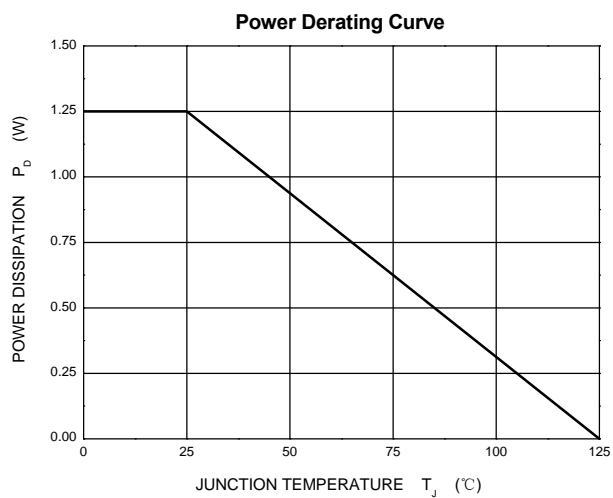
Electrical Characteristics

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	Iq	$V_i=23V, I_o=350mA$	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



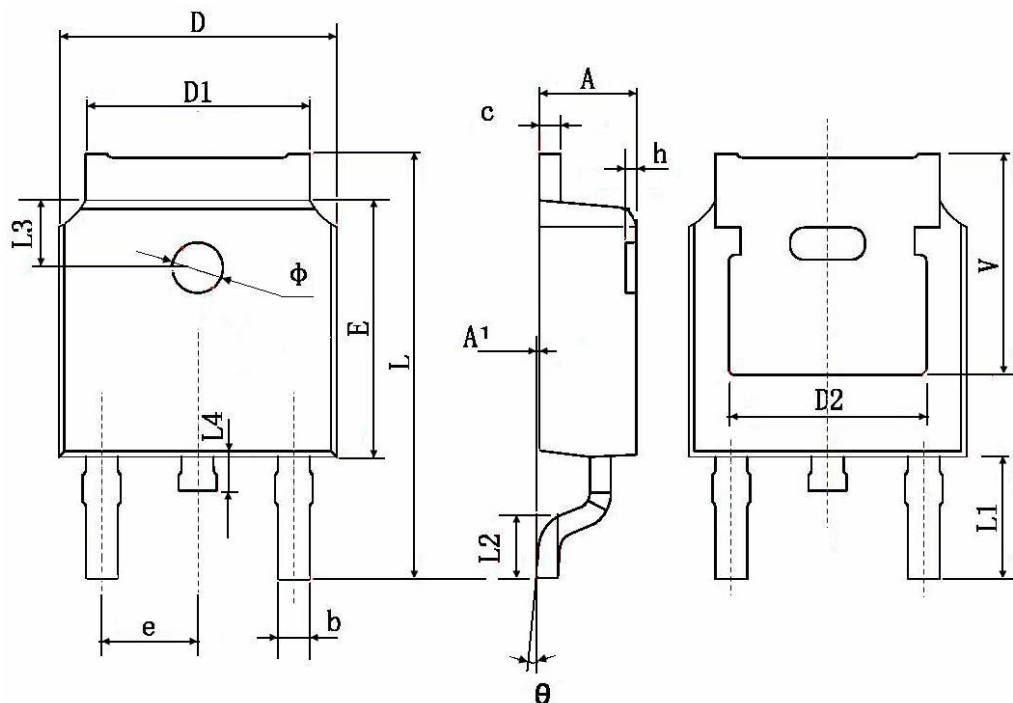
Typical Characteristics







TO-252-2L(DPAK) Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	0.483 TYP.		0.190 TYP.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 TYP.		0.114 TYP.	
L2	1.400	1.700	0.055	0.067
L3	1.600 TYP.		0.063 TYP.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	



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